

# FIG. 1A

1	ATGTGGAATCGATACACATTTGTCCTCAGCCTTTCCCCACCTGCCCGGCTGCTGC	60	M W K W I L L T H C A S A F P H L P G C C
61	TGCTGCTGCTTTTGTGCTGTTCTTGGTGTCTCCGTCCTGTACCTGCCAAGCCCTT	120	C C C F L L L F L V S S V P V T C Q A L
121	AGCAGCAGAAAACACGACAGAACACAGAGGAGGACAGTGACGGTTCGGGAA	180	GGTCAGGACATGGTGTACACAGAGCCACCAACTCTTCTTCTCCTCCTTCTCCTCCT
181	CCAGTCCTGTACCACAGTGGTCTCCGGTGTGAGAGAGGAGGAGAGAGAGAGGA	240	G Q D M V S P E A T N S S S S F S S P
	TCCAGCGCGGGAAGGCATGTGCGAGCTACAATCACCTTCAAGGAGATGTCCGCTGGAGA		AGGTCGCGCCCTTCCGTACACGCCCTCGATGTAGTGAAGTTCCTCTACAGGCGACCTCT
	S S A G R H V R S Y N H L Q G D V R W R		

MATCH WITH FIG. 1B

# MATCH WITH FIG. 1A

241 AAGCTATTCCTCTTTCACCAAGTACTTTCTCAAGATTGAGAAGACGGGAAGGTCAGCGGG  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 TTCGATAAGAGAAAGTGGTTTCATGAAGAGTTCTAACTCTTCTTGCCCTTCCAGTCGCCCC 300

K L F S F T K Y F L K I E K N G K V S G -

301 ACCAAGAAGGAGAACTGCCCGTACAGCATCCTGGAGATAACATCAGTAGAAATCGGAGTT  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 TGGTTCTTCTCTTGACGGGCATGTCGTAGGACCTCTATTGTAGTCATCTTTAGCCCTCAA 360

T K K E N C P Y S I L E I T S V E I G V -

361 GTTGCCGTCAAAGCCATTAAACAGCAACTATTACTTAGCCATGAACAAGGGAAGAACTC  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 CAACGCGAGTTTCGGTAATTGTCGTGATAATGAATCGGTACTTGTCTTCCCTTTGAG 420

V A V K A I N S N Y Y L A M N K K G K L -

421 TATGGCTCAAAGAAATTAAACAATGACTGTAAAGCTGAAGGAGGATAGAGGAAATGGA  
 -----+-----+-----+-----+-----+-----+-----+-----+  
 ATACCGAGTTTCTTAAATGTACTGACATTCGACTTCCTCTCCTATCTCCTTTTACCT 480

Y G S K E F N N D C K L K E R I E E N G -

## MATCH WITH FIG. 1C

**MATCH WITH FIG. 1B**

481 TACAATACCTATGCATCATTTAACTGGCAGCATAAATGGAGGCAAATGTATGTGGCATTG  
-----+-----+-----+-----+-----+-----+-----+-----+  
ATGTTATGGATACGTAGTAAATTGACCGTCGTATTACCCCTCCGTTTACATACACCGTAAC  
540  
Y N T Y A S F N W Q H N G R Q M Y V A L  
-  
AATGGAAAAGGAGCTCCAAGGAGAGGACAGAAACACGAAGGAAACACCTCTGCTCAC  
-----+-----+-----+-----+-----+-----+-----+-----+  
TTACCTTTTCCTCGAGGTTCCCTCCTGCTCTTTCGCTTCCTTTTTCGGAGACGAGTG  
541  
N G K G A P R R G Q K T R R K N T S A H  
-  
TTTCTTCCAATGGTGTA CACTCATAG  
-----+-----+-----+-----+-----+-----+-----+-----+  
AAAGAAGGTTACCACCATGTGAGTATC  
601  
F L P M V V H S \*

## FIG. 2A

FGF4	1	MS.GPGTAAV	ALLPAVLAL	LA.....	PWAGRGAA	APTAPNGTLE	50
FGF6		MSRGAGRLQG	TLWALVFLGI	LV.....	GMVVPSPAG	TR.ANNTLLD	
FGF5		.....MSL	SFLLLLFFSH	LILSAWAHGE	KRLAPKGQPG	PAATDRNPIG	
FGF1		.....	.....	.....	.....	.....	
FGF2		.....	.....	.....	.....	.....	
FGF9		.....	.....	.....	.....	.....	
FGF7		.....	.....	.....	.....	.....	
KGF2		.....	.....	.....	.....	.....	
FGF3		.....	.....	.....	.....	.....	
FGF8		MGSPRSALSC	LLHLHLVLCL	QAQVRSAAQK	RGPGAGNPAD	TLGQGHEDRP	

FGF4	51	AELERRWESL	VALSLARLPV	AA..QPKEAA	VQSGAGDY..	...LLGIKRL	100
FGF6		S...RGWGTI	LSRSRAGLAG	EI.....AG	VNWESG.Y..	...LVGIKRR	
FGF5		SSSRQSSSA	MSSSSASSSP	AASLGSQGS	LEQSSSQW..	...SPSGRR	
FGF1		.....MAEG	EITTFALT	KFN...LPPG	.....N..	...YK...KP	
FGF2		.....MAAG	SITTLPALPE	DGSGAFPPG	.....H..	...FK...DP	
FGF9		FGNVPVL:PD	SPVLLSDHLG	QSEAGGLPRG	PAVTDLDH..	...LKGILRR	
FGF7		LACNDMTPEQ	M...ATNVNC	.....SSPE	RHTRSYDY..	...MEGGDIR	
KGF2		VTCQALGQDM	VSPEATNSSS	SSFSSPSSAG	RHVRSYNH..	...LQ.GDVR	
FGF3		PGWPAAGPGA	.....	...RLRRDAG	GRGGVYEH..	...L.GGAPR	
FGF8		FGQRSRAGKN	FTNPAPNYPE	EGSKEQRDSV	LPKVTQRHVR	EQSLVTDQLS	

MATCH WITH FIG. 2B

# MATCH WITH FIG. 2A FIG. 2B

101

FGF4	RRL.....YC	NVGIGFHLQA	LPDGRIGGAH	ADT.RDSLLE	150
FGF6	RRL.....YC	NVGIGFHLQV	LPDGRISGTH	EEN.PYSLLE	LSPVERGV.V
FGF5	GSL.....YC	RVGIGFHLQI	YPDGVNGSH	EAN.MLSVLE	ISTVERGV.V
FGF1	KLL.....YC	SNG.GHFLRI	LPDGTVDGTR	DRSDQHIQLQ	IFAVSQGI.V
FGF2	KRL.....YC	KNG.GFFLRI	HPDGRVDGVR	EKSDPHIKLQ	LSAESVGE.V
FGF9	RQL.....YC	R.T.GFHLEI	FPNGTIQGTR	KDHSRFGILE	LQAEERGV.V
FGF7	VRR.....LF	CRT.QWYLRI	DKRGKVKGTQ	EMKNYNIME	FISIAVGL.V
KGF2	WRK.....LF	SFT.KYFLKI	EXNGKVSGTK	KENCYPYSILE	IRTVAVGI.V
FGF3	RRK.....LY	CAT.KYHLQL	HPSGRVNGSL	.ENSAYSILE	ITSVEIGV.V
FGF8	RRLIRTYQLY	SRTSGKHVQV	LANKRINAMA	EDGDFFAKLI	ITAVEVGI.V
					VETDFFGSRV

151

FGF4	SIFGVASRFF	VAMSSKGKLY	G.SPFFTDEC	TFKEILLPNN	200
FGF6	SLEGVRSALF	VAMNSKGRLY	A.TPSFQEEC	KFRETLPLNN	YNAYESYKYP
FGF5	GIRGVFSNKF	LAMSKKGKLY	A.SAKFTDDC	KFRERFQENS	YNAYESDLYQ
FGF1	YIKSTETGOY	LAMDTDGLLY	G.SQTPNEEC	LFLERLEENH	YNTYASAIHR
FGF2	SIRGVCANRY	LAMKEDGRLL	A.SKCVTDEC	FFFERLESNN	YNTYISKKH.
FGF9	SIRGVDSGLY	LGMNEKGELY	G.SEKLTQEC	VFRBQFEENW	YNTYRSRKY.
FGF7	AIKGVSESEFY	LAMNKEGKLY	A.KKECNEDC	NFKELILENH	YNTYSSNLYK
KGF2	AVKAINSNNY	LAMNKGKLY	G.SKEFNDC	KLKERIEENG	YNTYAS....
FGF3	AIRGLESGRY	LAMNKRGRLY	A.SEHYSAEC	EFVERIHELG	YNTYAS....
FGF8	RVRGAETGLY	ICMNRKGLI	AKSNGKGKDC	VFTIIVLENN	YNTYASRLYR
					YTALQNAKY.

MATCH WITH FIG. 2C

# MATCH WITH FIG. 2B

201

FGF4	.....	GM.....	FI	ALSKNGKTKK	G..	NRVSPIM	250
FGF6	.....	GT.....	YI	ALSKYGRVVR	G..	SKVSPIM	KVTHFLPRL.
FGF5	.....	TEKTGREWYV		ALNKRKGAKR	GCS	PRVKPOH	TVTHFLPRI.
FGF1	.....	...AEKNWEV		GLKKNNGSCKR	G..	PRTHYGQ	ISTHFLPRFK
FGF2	.....	...T...SWYV		ALKRTGQYKL	G..	SKTGPGQ	KAILFLPLPV
FGF9	.....	...DTGRRYV		ALNKDGTPRE	G..	TRTKRHQ	KAILFLPMSA
FGF7	.....	...AKW THNGGEM.FV		ALNQKGIPVR	G..	KTKKKEQ	KFTHFLPRPV
KGF2	.....	...FNV QHNGRQM.YV		ALNGKGAPRR	G..	QKTRRKN	KTAHFLPMAI
FGF3	.....	TVSSTPGARR QPSAERLWYV		SVNGKGRPRR	G..	FKTRRTQ	TSAHFLPMV
FGF8	.....	.....EGWYM		AFTKGRPRK	G..	SKTRQHQ	KSSLFLPRVL
							REVHEMKRLP

251

FGF4	.....	.....	.....	.....	.....	.....	300
FGF6	.....	.....	.....	.....	.....	.....	
FGF5	QSEQPELSFT	VTVPEKKNPP	SPIKSKIPLS	APRKNTNSVK	YRLKFRFG..		
FGF1	SSD.....	.....	.....	.....	.....		
FGF2	KS.....	.....	.....	.....	.....		
FGF9	DPDKVPELYK	DILSQS....	.....	.....	.....		
FGF7	T.....	.....	.....	.....	.....		
KGF2	HS.....	.....	.....	.....	.....		
FGF3	DHRDHEMVRQ	LQSGLP RPPG	KGVP RRRRQ	KQSPDNLEPS	HVQASRLGSQ		
FGF8	RGHHTTEQSL	RFEFLNYPFF	TRSLRGSQRT	WAPEPR....	.....		

MATCH WITH FIG. 2D

# FIG. 2D

MATCH WITH FIG. 2C

301	EGF4	.....
	EGF6	.....
	EGF5	.....
	EGF1	.....
	EGF2	.....
	EGF9	.....
	EGF7	.....
	KGF2	.....
	EGF3	LEASAH
	EGF8	.....

**F**

GGAAATTC	CCGG	GAAGAGAGGG	AAGAAAACAA	CGGCGACTGG	GCAGCTGCCT	CCACTTCTGA	60									
CAACTC	CAAA	GGGATATACT	TGTAGAAGTG	GCTCGCAGGC	TGGGGCTCCG	CAGAGAGAGA	120									
CCAGAAGGTG	CCAACCGCAG	AGGGGTGCAG	ATATCTCCCC	CTATTCCCCA	CCCCACCTCC		180									
CTTGGGTTTT	GTTACACGTG	CTGTCACTCTG	TTTTTCAGAC	CTTTTGGGCA	TCTAACATGG		240									
TGAAGAAAGG	AGTAAAGAAG	AGAACAAAGT	AACTCCTGGG	GGAGCGAAGA	GCGCTGGTGA		300									
CCAACACCAC	CAACGCCACC	ACCAGCTCCT	GCTGCTGCGG	CCACCCACGT	CCACCATTTA		360									
CCGGGAGGCT	CCAGAGGCGT	AGGCAGCGGA	TCCGAGAAAG	GAGCGAGGGG	AGTCAGCCGG		420									
CTTTTCCGAG	GAGTTATGGA	TGTTGGTGCA	TTCACTTCTG	GCCAGATCCG	CGCCCAGAGG		480									
GAGCTAACCA	GCAGCCACCA	CCTCGAGCTC	TCTCCTTGCC	TTGCATCGGG	TCTTACCCTT		540									
CCAGTATGTT	CCTTCTGATG	AGACAATTTT	CAGTGCCGAG	AGTTTCAGTA	CA ATG		595									
					Met											
TGG	AAA	TGG	ATA	CTG	ACA	CAT	TGT	GCC	TCA	GCC	TTT	CCC	CAC	CTG	CCC	643
Trp	Lys	Trp	Ile	Leu	Thr	His	Cys	Ala	Ser	Ala	Phe	Pro	His	Leu	Pro	
GGC	TGC	TGC	TGC	TGC	TGC	TTT	TTG	TTG	CTG	TTC	TTG	GTG	TCT	TCC	GTC	691
Gly	Cys	Cys	Cys	Cys	Cys	Phe	Leu	Leu	Leu	Phe	Leu	Val	Ser	Ser	Val	
CCT	GTC	ACC	TGC	CAA	GCC	CTT	GGT	CAG	GAC	ATG	GTG	TCA	CCA	GAG	GCC	739
Pro	Val	Thr	Cys	Gln	Ala	Leu	Gly	Gln	Asp	Met	Val	Ser	Pro	Glu	Ala	
ACC	AAC	TCT	TCT	TCC	TCC	TCC	TTC	TCC	TCT	CCT	TCC	AGC	GCG	GGA	AGG	787
Thr	Asn	Ser	Ser	Ser	Ser	Ser	Phe	Ser	Ser	Pro	Ser	Ser	Ala	Gly	Arg	
CAT	GTG	CGG	AGC	TAC	AAT	CAC	CTT	CAA	GGA	GAT	GTC	CGC	TGG	AGA	AAG	835
His	Val	Arg	Ser	Tyr	Asn	His	Leu	Gln	Gly	Asp	Val	Arg	Trp	Arg	Lys	
CTA	TTC	TCT	TTC	ACC	AAG	TAC	TTT	CTC	AAG	ATT	GAG	AAG	AAC	GGG	AAG	883
Leu	Phe	Ser	Phe	Thr	Lys	Tyr	Phe	Leu	Lys	Ile	Glu	Lys	Asn	Gly	Lys	
GTC	AGC	GGG	ACC	AAG	AAG	GAG	AAC	TGC	CCG	TAC	AGC	ATC	CTG	GAG	ATA	931
Val	Ser	Gly	Thr	Lys	Lys	Glu	Asn	Cys	Pro	Tyr	Ser	Ile	Leu	Glu	Ile	
ACA	TCA	GTA	GAA	ATC	GGA	GTT	GTT	GCC	GTC	AAA	GCC	ATT	AAC	AGC	AAC	979
Thr	Ser	Val	Glu	Ile	Gly	Val	Val	Ala	Val	Lys	Ala	Ile	Asn	Ser	Asn	
TAT	TAC	TTA	GCC	ATG	AAC	AAG	AAG	GGG	AAA	CTC	TAT	GGC	TCA	AAA	GAA	1027
Tyr	Tyr	Leu	Ala	Met	Asn	Lys	Lys	Gly	Lys	Leu	Tyr	Gly	Ser	Lys	Glu	
TTT	AAC	AAT	GAC	TGT	AAG	CTG	AAG	GAG	AGG	ATA	GAG	GAA	AAT	GGA	TAC	1075
Phe	Asn	Asn	Asp	Cys	Lys	Leu	Lys	Glu	Arg	Ile	Glu	Glu	Asn	Gly	Tyr	



# Figure 3B

AAT ACC TAT GCA TCA TTT AAC TGG CAG CAT AAT GGG AGG CAA ATG TAT - 1123  
Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr

GTG GCA TTG AAT GGA AAA GGA GCT CCA AGG AGA GGA CAG AAA ACA CGA 1171  
Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg

AGG AAA AAC ACC TCT GCT CAC TTT CTT CCA ATG GTG GTA CAC TCA 1216  
Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser

TAGAGGAAGG CAACGTTTGT GGATGCAGTA AAACCAATGG CTCTTTTGCC AAGAATAGTG 1276

GATATTCTTC ATGAAGACAG TAGATTGAAA GGCAGGACAC CGTTGCAGAT GTCTGCTTGC 1336

TTAAAAGAAA GCCAGCCTTT GAAGGTTTTT GTATTCACGT CTGACATATG ATGTTCTTTT 1396

AATTAGTTCT GTGTCATGTC TTATAATCAA GATATAGGCA GATCGAATGG GATAGAAGTT 1456

ATTCCTCAAGT GAAAAACATT GTGGCTGGGT TTTTGTGTTT TGTGTCAAG TTTTGTGTTT 1516

TAAACCTCTG AGATAGAACT TAAAGGACAT AGAACAATCT GTTGAAAGAA CGATCTTCGG 1576

GAAAGTTATT TATGGAATAC GAACTCATAT CAAAGACTTC ATTGCTCATT CAAGCCTAAT 1636

GAATCAATGA ACAGTAATAC GTGCAAGCAT TTACTGGAAA GCACTTGGGT CATATCATAT 1696

GCACAACCAA AGGAGTTCTG GATGTGGTCT CATGGAATAA TTGAATAGAA TTTAAAAATA 1756

TAAACATGTT AGTGTGAAAC TGTTCTAACA ATACAAATAG TATGGTATGC TTGTGCATTG 1816

TGCCTTCATC CCTTCTATT TCTTCTAAG TTATTATTT AATAGGATGT TAAATATCTT 1876

TTGGGGTTTT AAAGAGTATC TCAGCAGCTG TCTTCGATT TATCTTTCT TTTTATTCAG 1936

CACACCACAT GCATGTTTAC GACAAAGTGT TTTTAAAACT TGGCGAACAC TTCAAAAATA 1996

GGAGTTGGGA TTAGGGAAGC AGTATGAGTG CCCGTGTGCT ATCAGTTGAC TTAATTGCA 2056

CTTCTGCAGT AATAACCATC AACAATAAAT ATGGCAATGC TGTGCCATGG CTTGAGTGAG 2116

AGATGTCTGC TATCATTTGA AAACATATAT TACTCTCGAG GCTTCCTGTC TCAAGAAATA 2176

GACCAGAAGG CCAATTCTT CTCTTTCAAT ACATCAGTTT GCCTCCAAGA ATATACTAAA 2236

AAAAGGAAAA TTAATTGCTA AATACATTTA AATAGCCTAG CCTCATTATT TACTCATGAT 2296

TTCTTGCCAA ATGTCATGGC GGTAAGAGG CTGTCCACAT CTCTAAAAAC CCTCTGTAAA 2356

TTCCACATAA TGCATCTTTC CCAAGGAAC TATAAGAAT TTGGTATGAA GCGCAACTCT 2416

# Figure 3C

2005-04-05

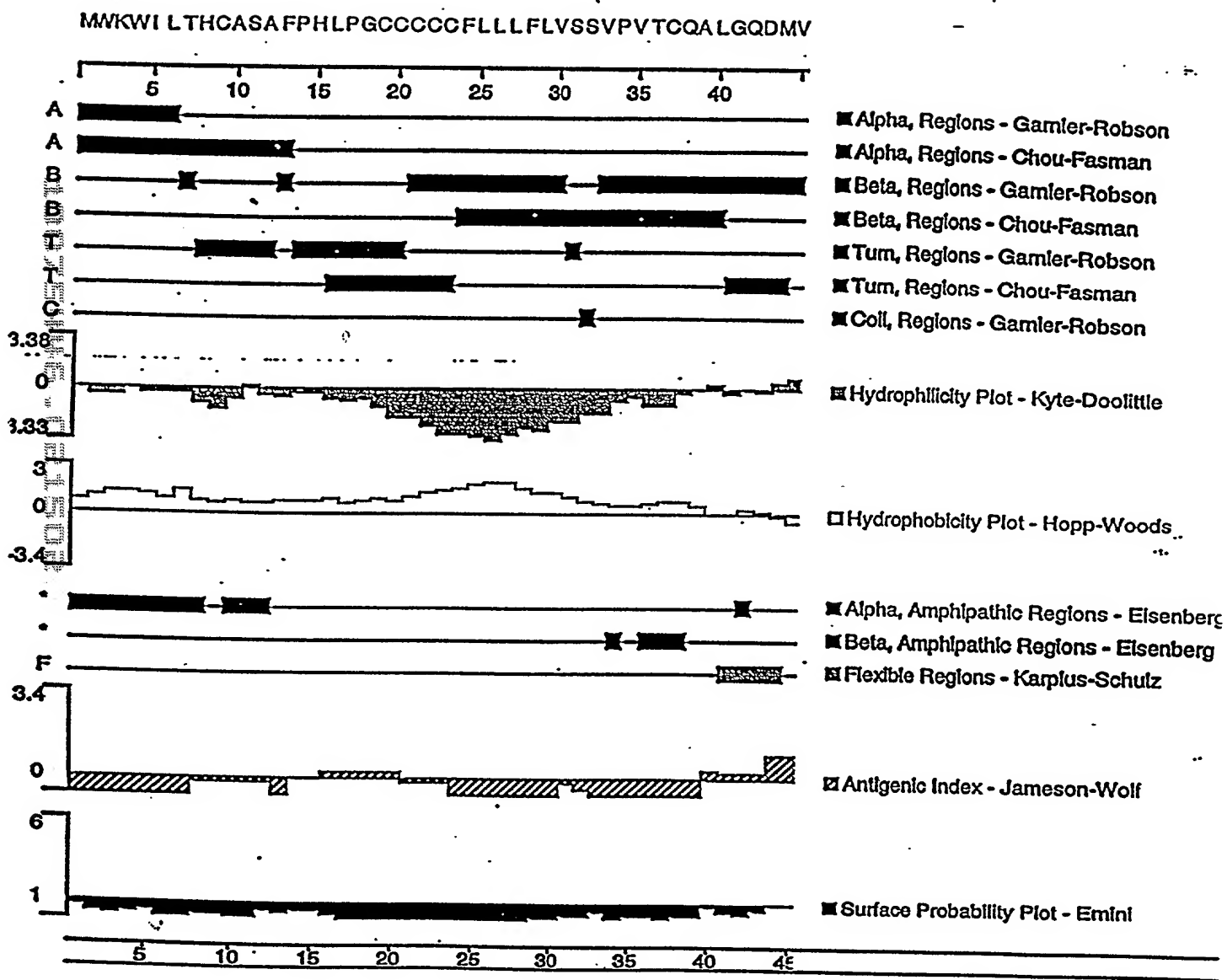
CCCAGGGGCT TAAACTGAGC AAATCAAATA TATACTGGTA TATGTGTAAC CATATACAAA	2476
AACCTGTTCT AGCTGTATGA TCTAGTCTTT ACAAACCAA ATAAACTTG TTTTCTGTAA	2536
ATTTAAAGAG CTTTACAAGG TTCCATAATG TAACCATATC AAAATTCATT TTGTTAGAGC	2596
ACGTATAGAA AAGAGTACAT AAGAGTTTAC CAATCATCAT CACATTGTAT TCCACTAAAT	2656
AAATACATAA GCCTTATTTG CAGTGTCTGT AGTGATTTTA AAAATGTAGA AAAATACTAT	2716
TTGTTCTAAA TACTTTTAAG CAATAACTAT AATAGTATAT TGATGCTGCA GTTTTATCTT	2776
CATATTTCTT GTTTTGAAAA AGCATTTTAT TGTTTGGACA CAGTATTTTG GTACAAAAAA	2836
AAAGACTCAC TAAATGTGTC TTACTAAAGT TTAACCTTTG GAAATGCTGG CGTTCTGTGA	2896
TTCTCCAACA AACTTATTTG TGTCAATACT TAACCAGCAC TTCCAGTTAA TCTGTTATTT	2956
TTAAAAATTG CTTTATTAAG AAATTTTTTG TATAATCCCA TAAAAGGTCA TATTTTCC	3016
ATTCTTCAAA AAAACTGTAT TTCAGAAGAA ACACATTTGA GGCAGTGTCT TTTGGCTTAT	3076
AGTTTAAATT GCATTTTCATC ATACTTTGCT TCCAAGTTGC TTTTGGCAA ATGAGATTAT	3136
AAAAATGTTT AATTTTTGTG GTTGAATCT GGATGTTAAA ATTTAATTGG TAACTCAGTC	3196
TGTGAGCTAT AATGTAATGC ATTCTATCC AACTAGGTA TCTTTTTTTC CTTTATGTTG	3256
AAATAATAAT GGCACCTGAC ACATAGACAT AGACCACCCA CAACCTAAAT TAAATGTTTG	3316
GTAAGACAAA TACACATTGG ATGACCACAG TAACAGCAAA CAGGGCACAA ACTGGATTCT	3376
TATTTACAT AGACATTTAG ATTACTAAAG AGGGCTATGT GTAAACAGTC ATCATTATAG	3436
TACTCAAGAC ACTAAAACAG CTTCTAGCCA AATATATTAA AGCTTGACAG GGCCAAAAAT	3496
AGAAAACATC TCCCCTGTCT CTCCCACATT TCCCTCACAG AAAGACAAAA AACCTGCCTG	3556
GTGCAGTAGC TCACACCTGT AATCCCAGCA GTTTGGGAGA CTGTGGGAAG ATGGCTTGAG	3616
TCCAGGAGTT CTAGACAGGC CTGAGAAACC TAGTGAGACA TCCTTCTCTT AAACAAAACA	3676
AAACAAAACA AATGTAGCCA TCGTGGTGG CATATACCTG TGGTCCCAAC TACTCAGGAG	3736
GCTGAAACGG AAGGATCTCT TGGGCCCCAG GAGTTTGAGG CTGCAGTGAG CTATAATCTT	3796
GCCATTGCAC TCCAGCCTGG GTGAAAAAGA GCCAGAAAGA AAGGAAAGAG AGAAAAGAGA	3856
AAAGAAAGAG AGAAAAGACA GAAAGACAGG AAGGAAGGAA GGAAGGAAGG AAGGAAGGAA	3916
GGAAGCAAGG AAAGAAGGAA GGAAGGAAAG AAGGGAGGGA AGGAAGGAGA GAGAAAGAAA	3976
GATTGTTTGG TAAGGAGTAA TGACATTCTC TTGCATTTAA AAGTGGCATA TTTGCTTGAA	4036

## Figure 3D

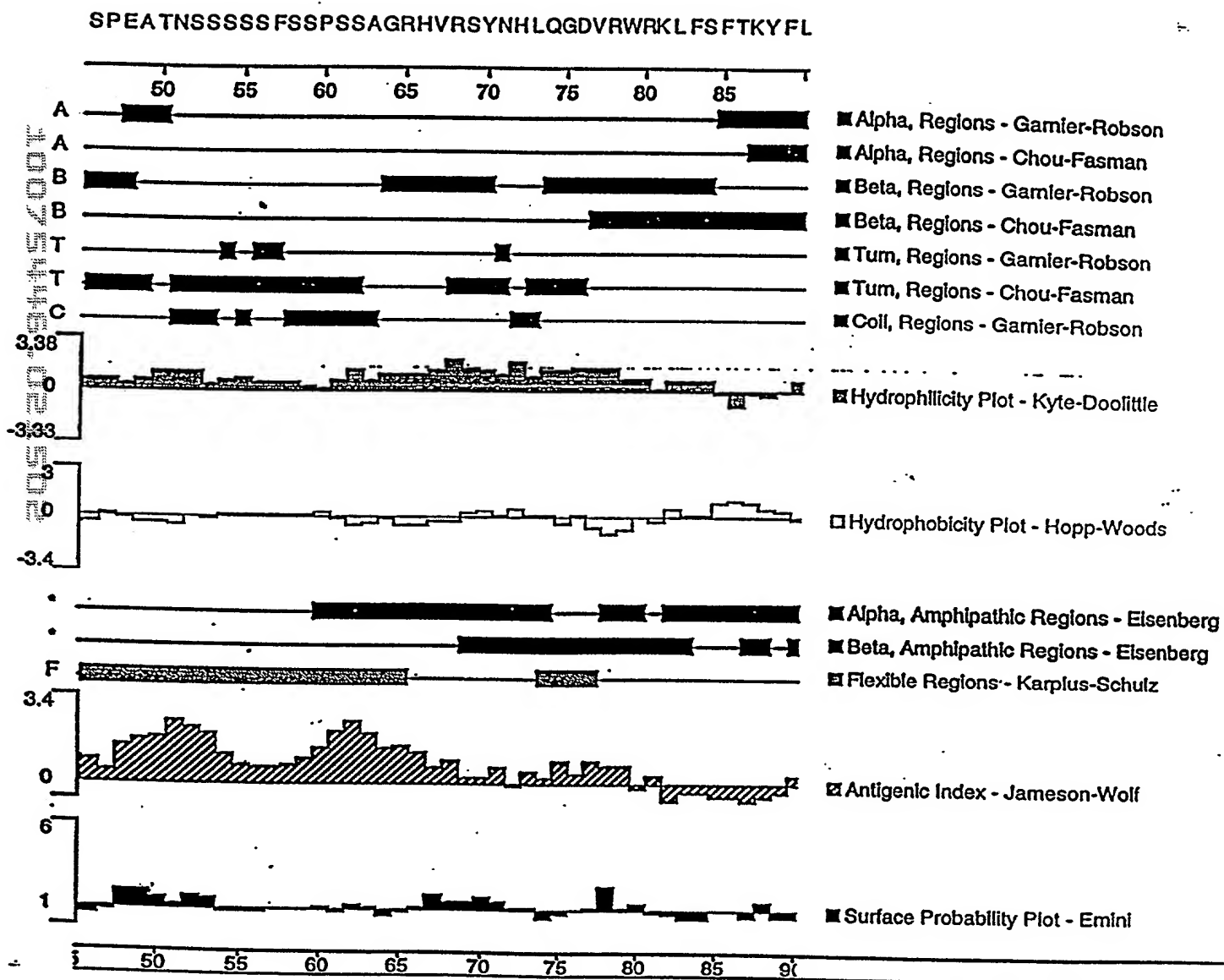
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TTCGCCCTAT AGTGAGTCGT A	4177

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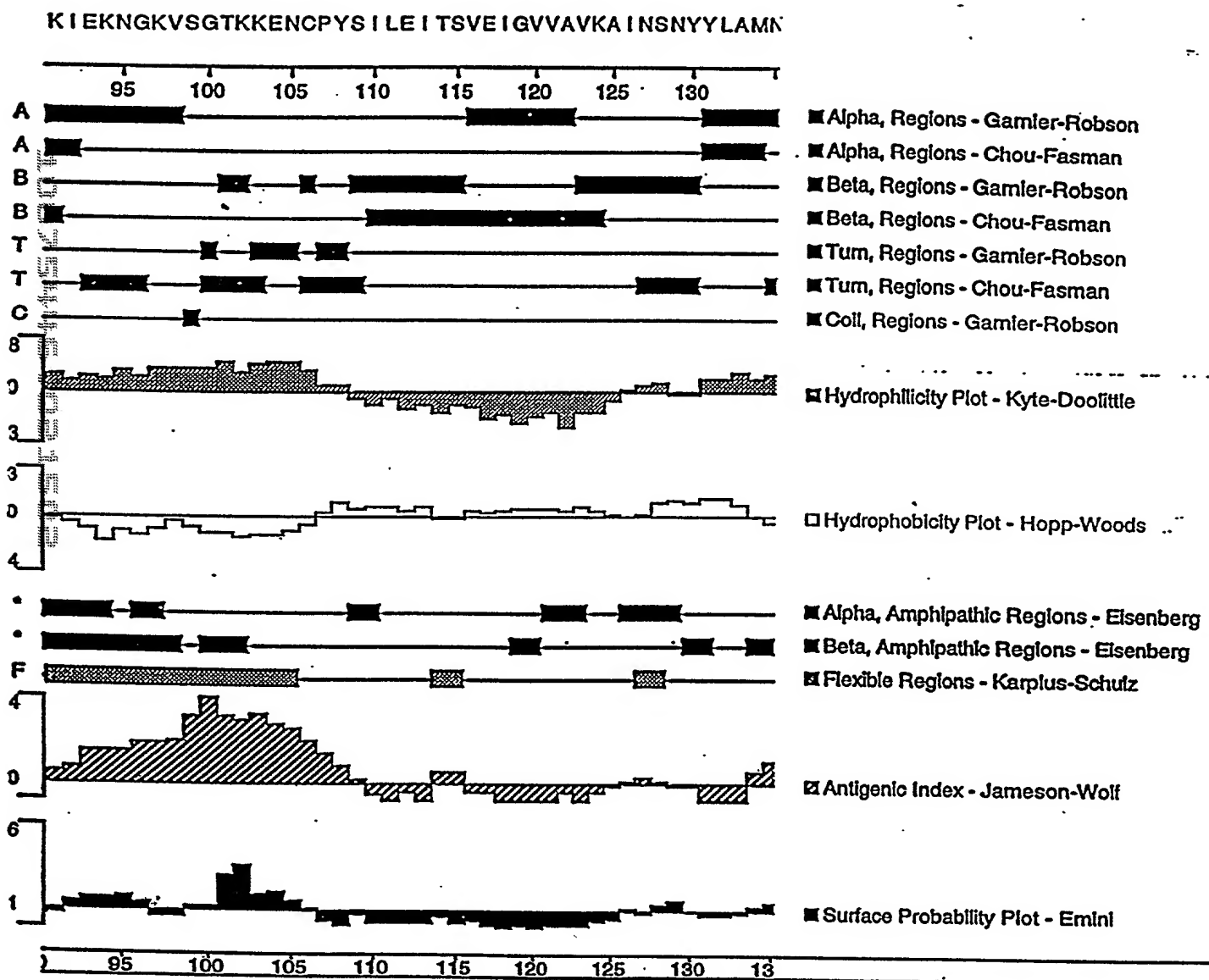
# Figure 4A



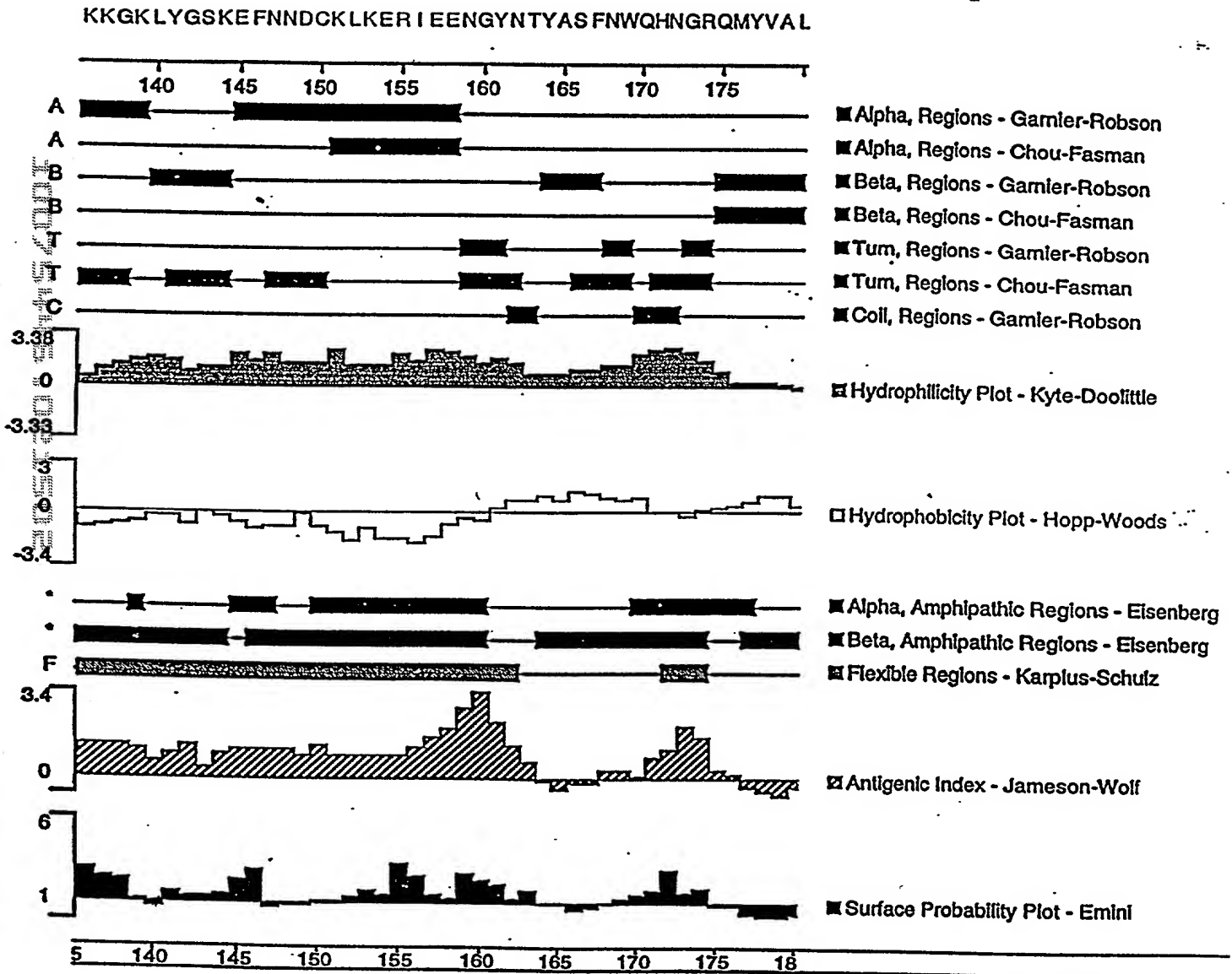
# Figure 4B



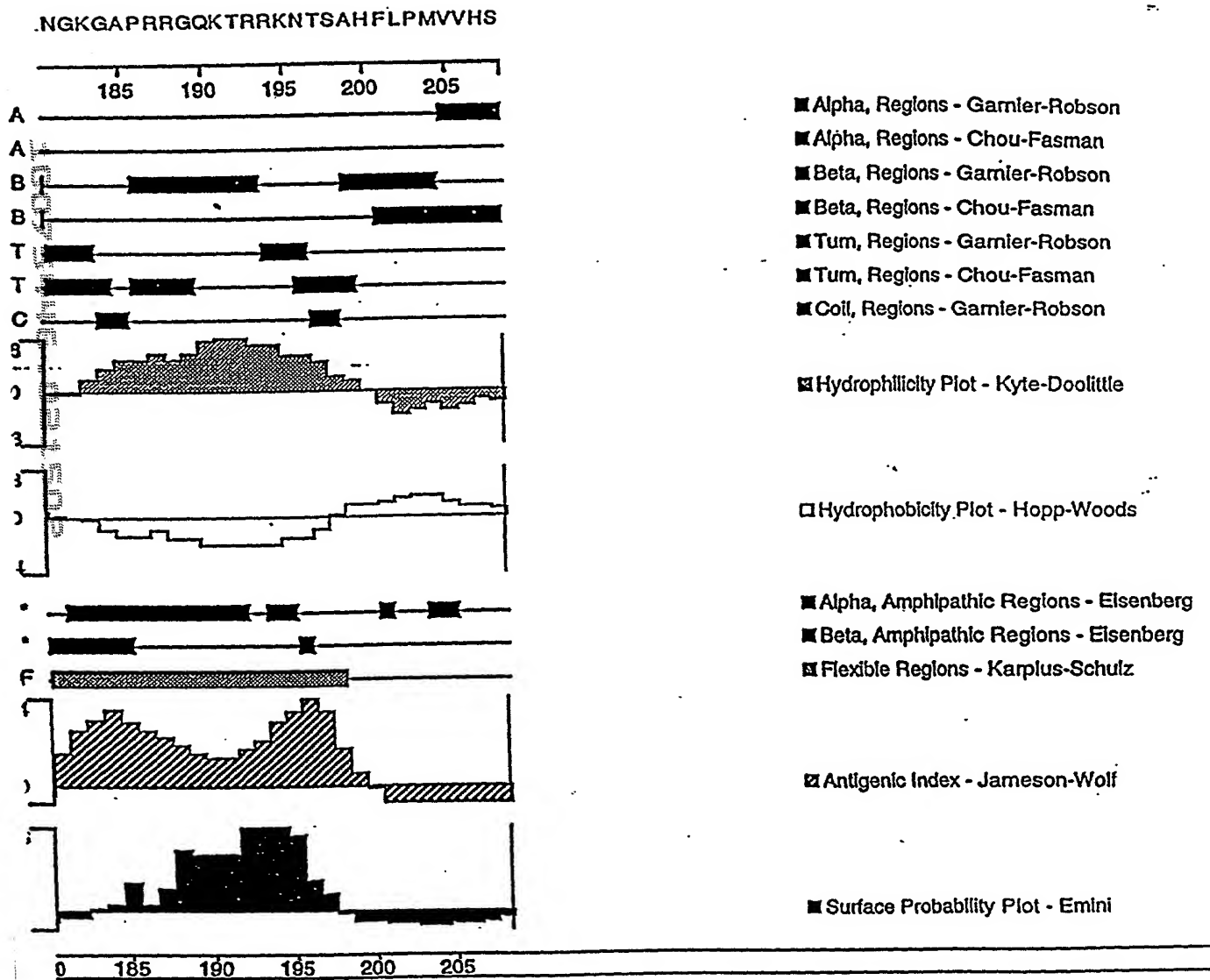
# Figure 4C



# Figure 4D

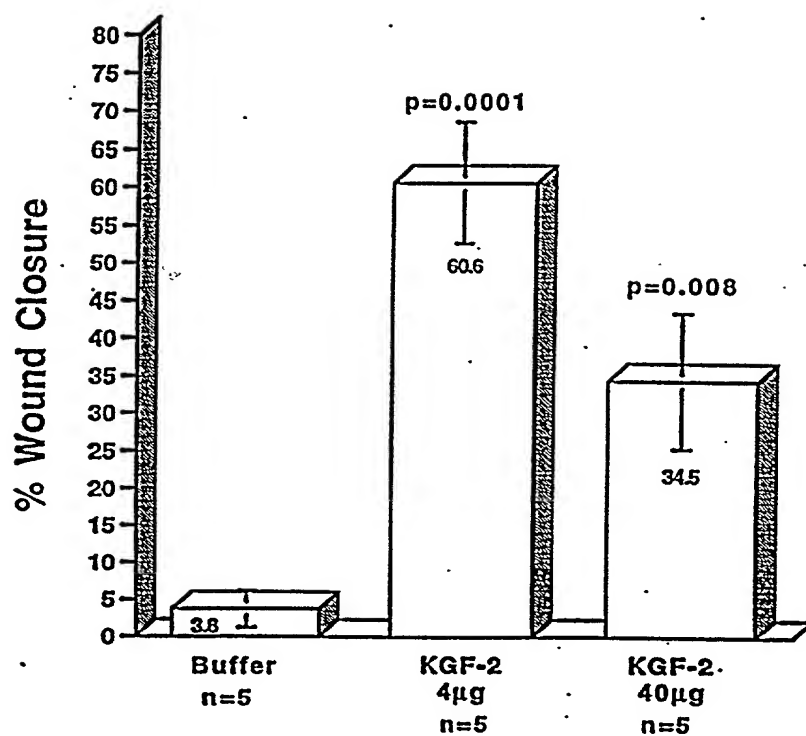


# Figure 4E





**Figure 5**



**Figure 6**

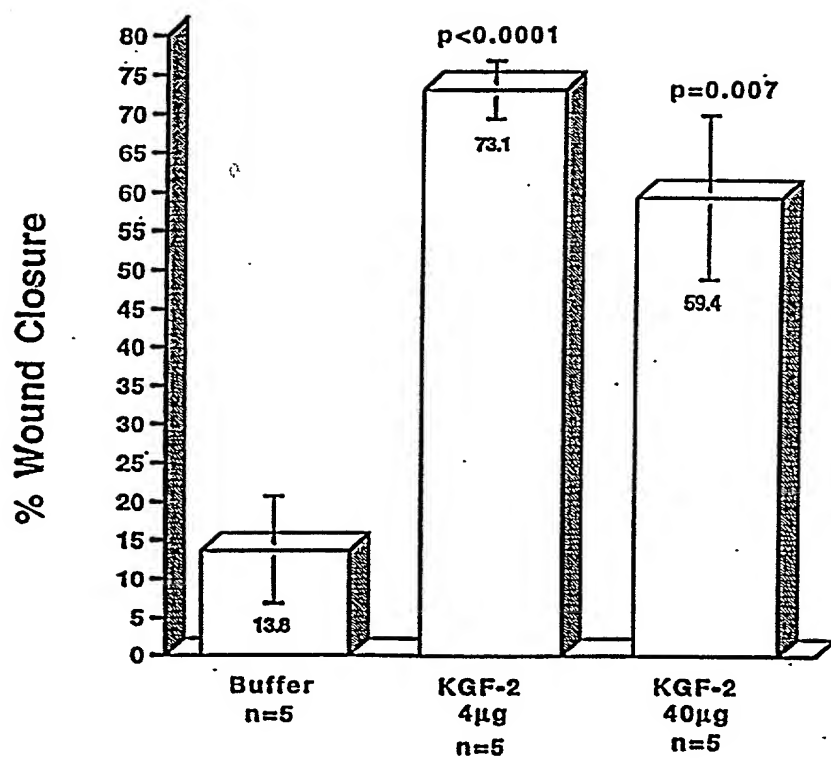


Figure 7

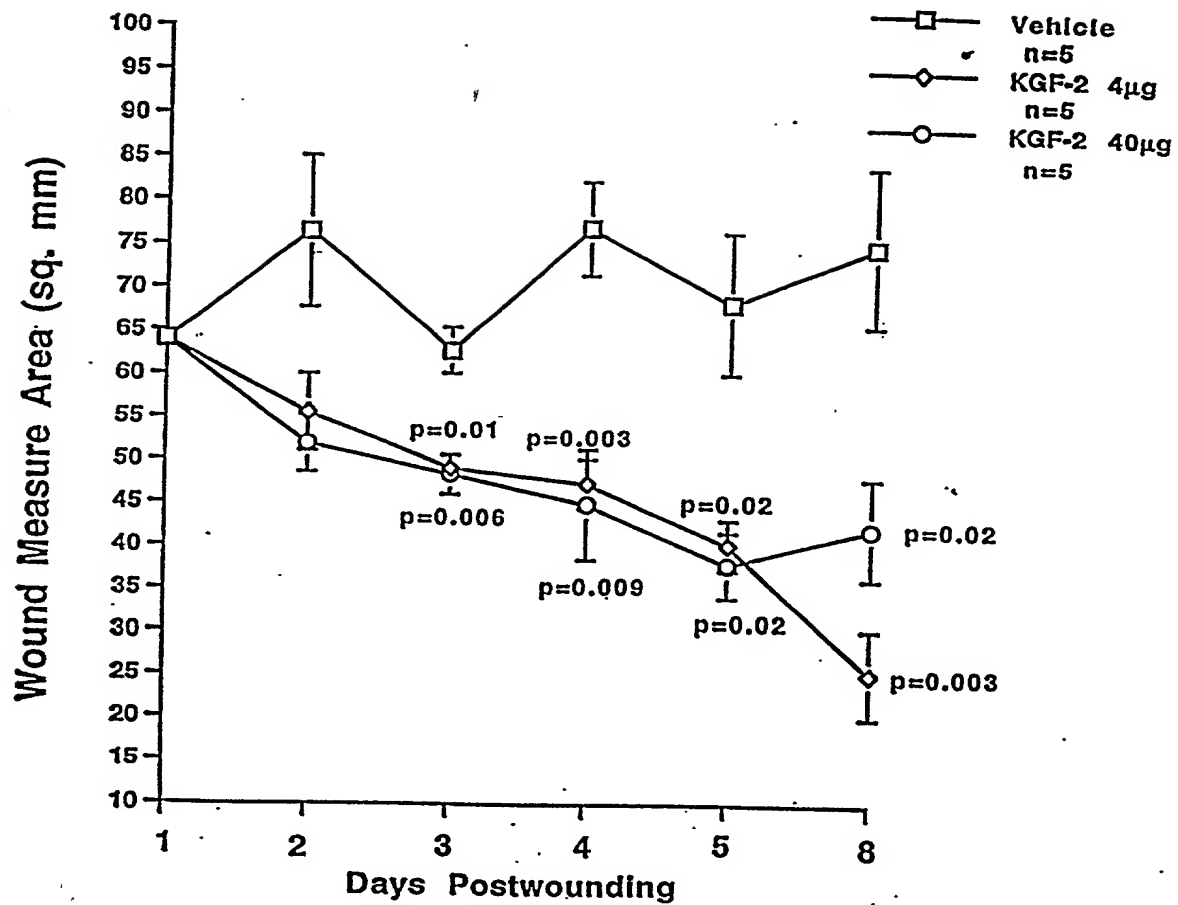
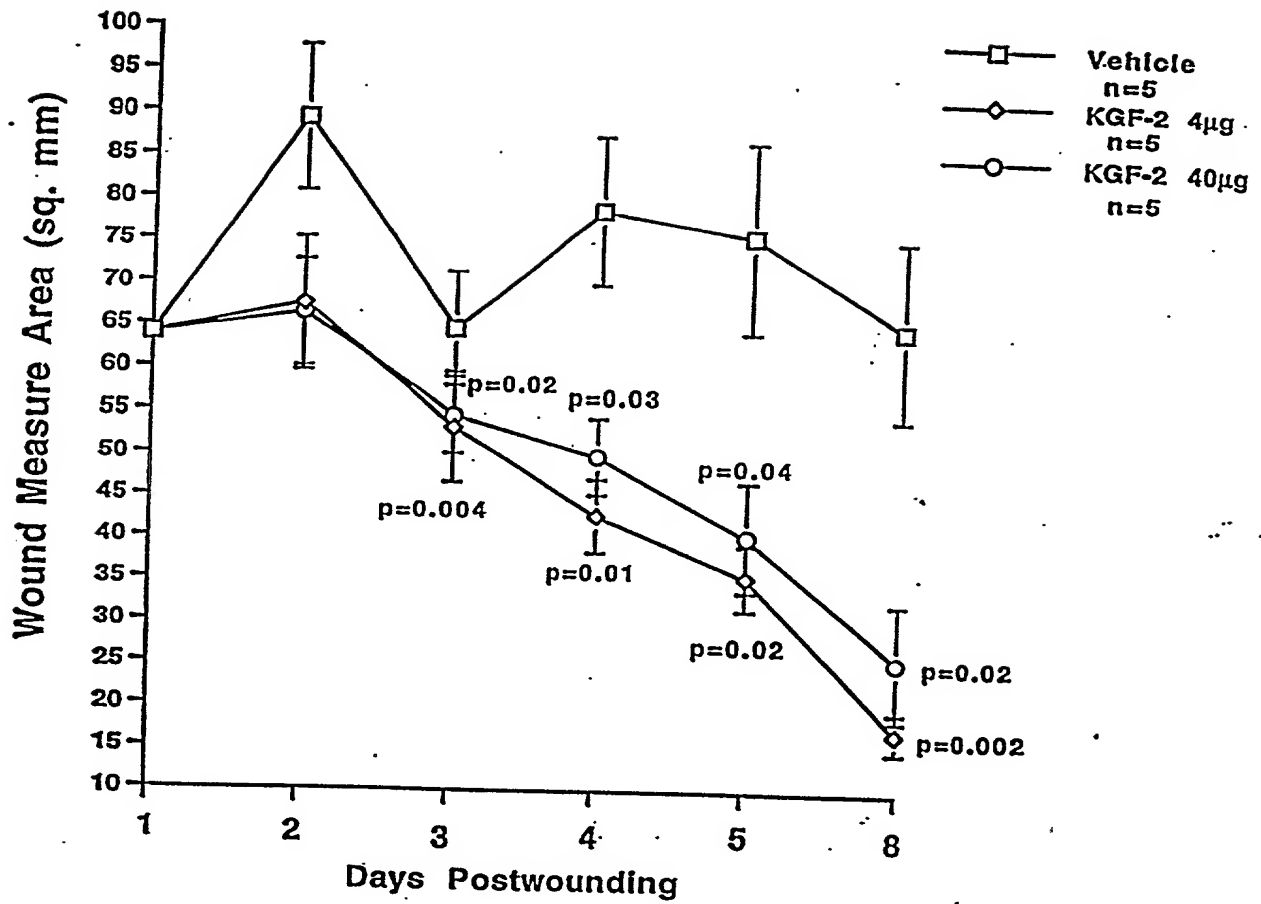
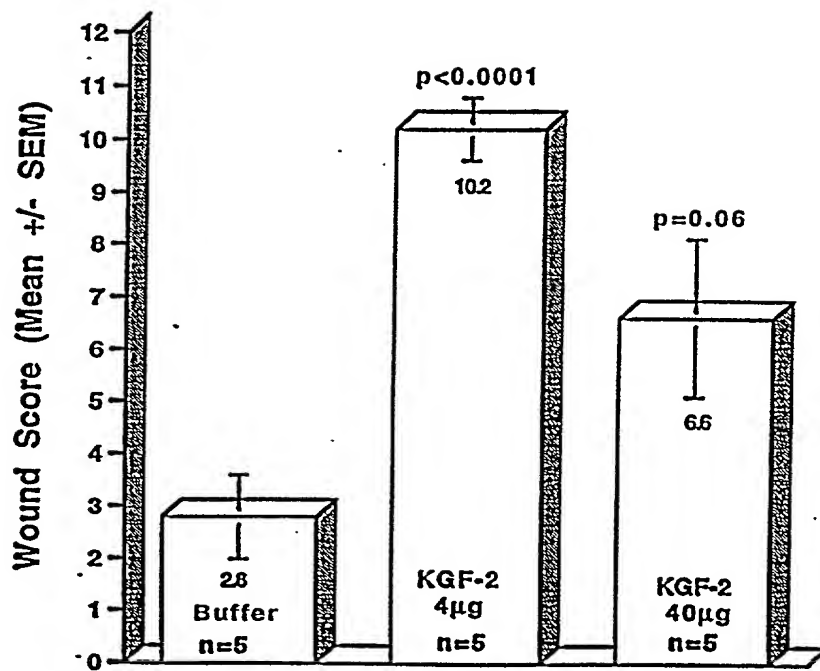


Figure 8

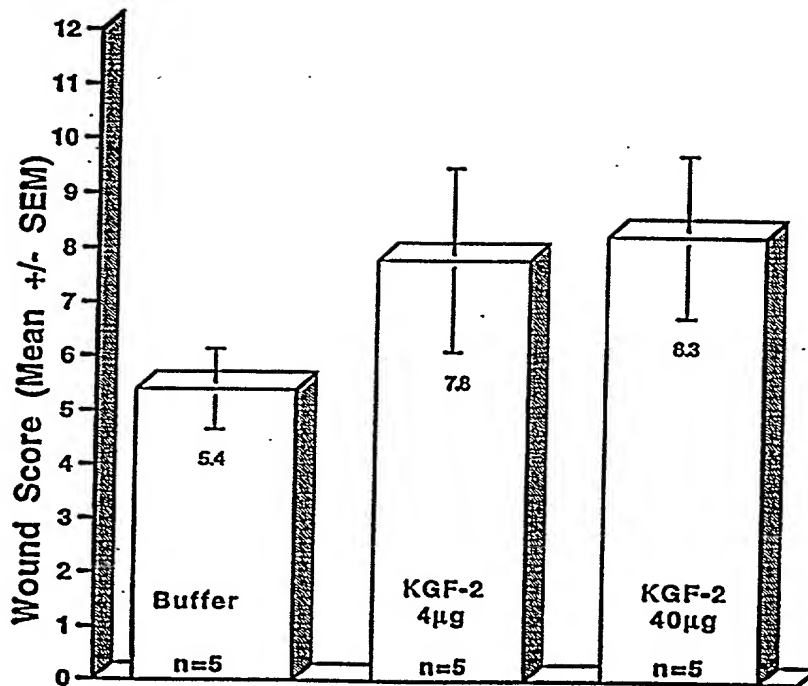


**Figure 9**



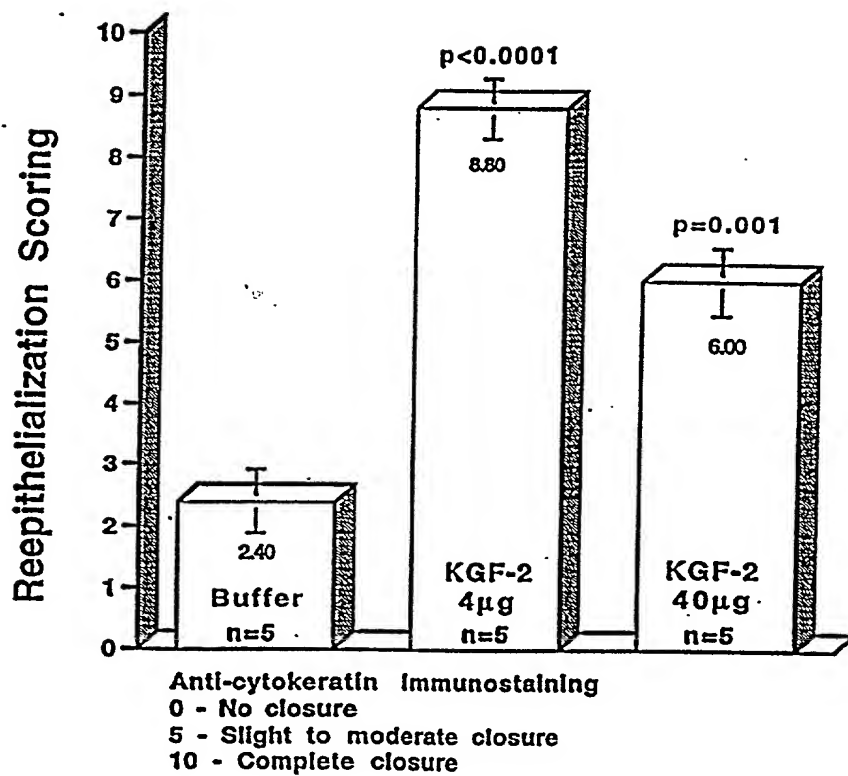
1-3 Minimal cell accumulation, no granulation  
4-6 Immature granulation, inflammatory cells, capillaries  
10-12 Fibroblasts, collagen, epithelium

**Figure 10**



1-3 Minimal cell accumulation, no granulation  
4-6 Immature granulation, inflammatory cells, capillaries  
7-9 Granulation tissue, cells, fibroblasts, new epithellum  
10-12 Fibroblasts, collagen, epithellum

Figure 11



**Figure 12**

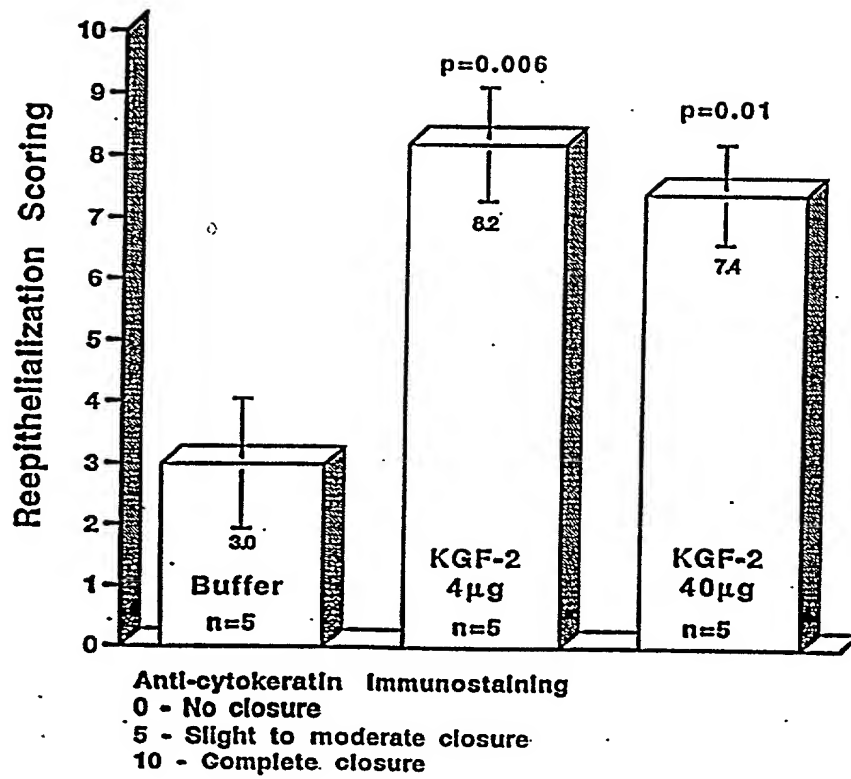




Figure 13

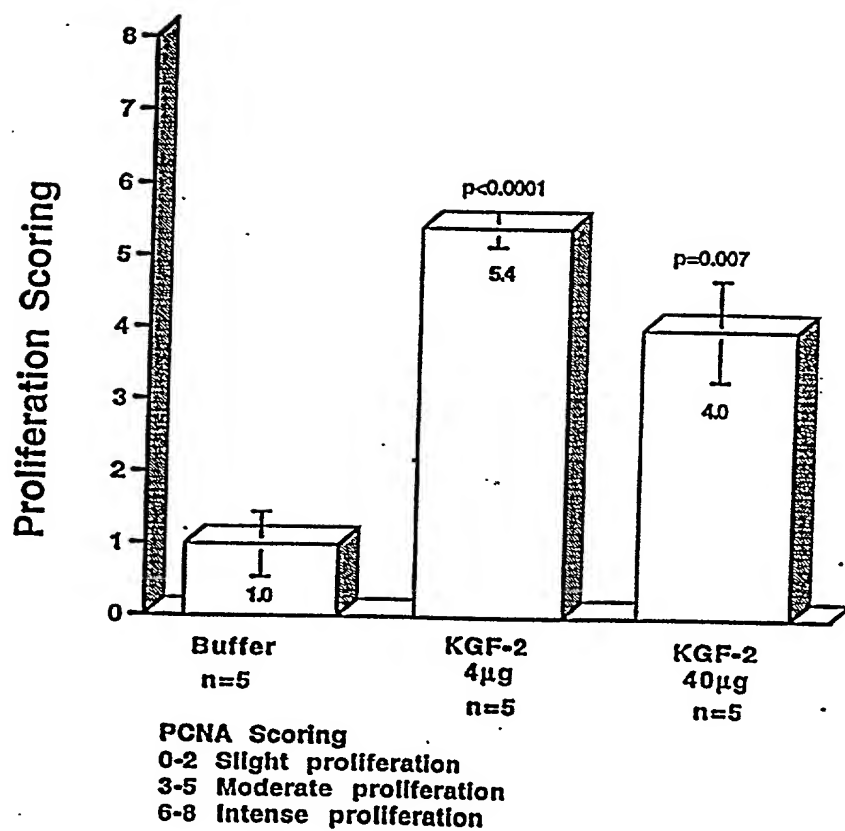
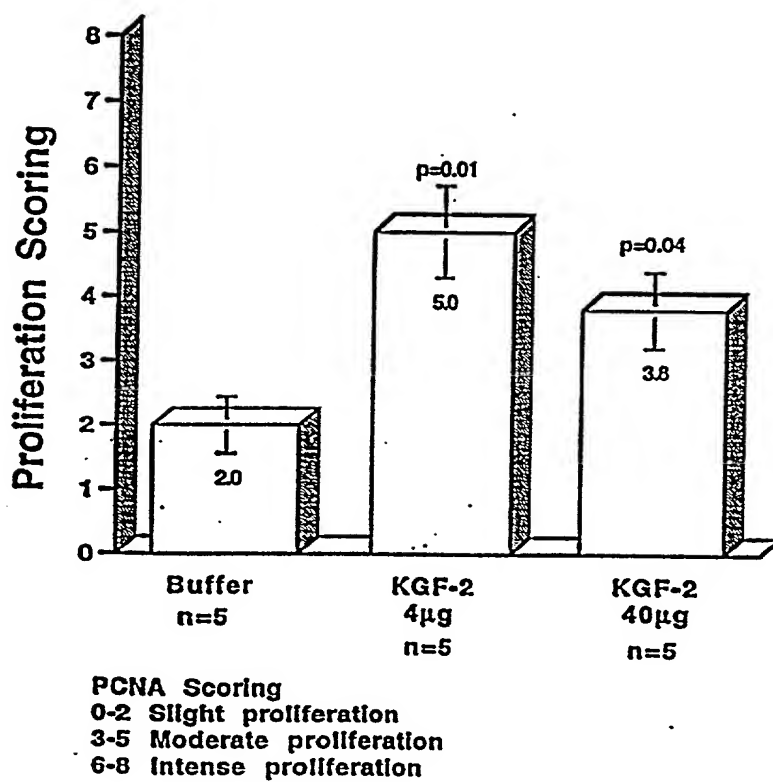


Figure 14



[illegible]

MRGSHHHHHHGGSCQALGQDMVSPPEATNSSSSSFSSPSSAGRHVRSYNHLQGD  
VRWRKLFSTKYFLKQKNGKVSGETTKENCYPYSILEITSVEIGVVAVKAINSN  
YYLAMNKKGKLYGSKEFNNDCKLKERIBENGYNTYASFNWQHNGRQMYVA  
LNGKGAPRRGOKTRRKNTSAHFLPMVVHS

kgf-2 synthetic cys37 Bam HI  
AAAGGATCTGCCAGGCTCTGGGTCAGGACATG

Figure 16

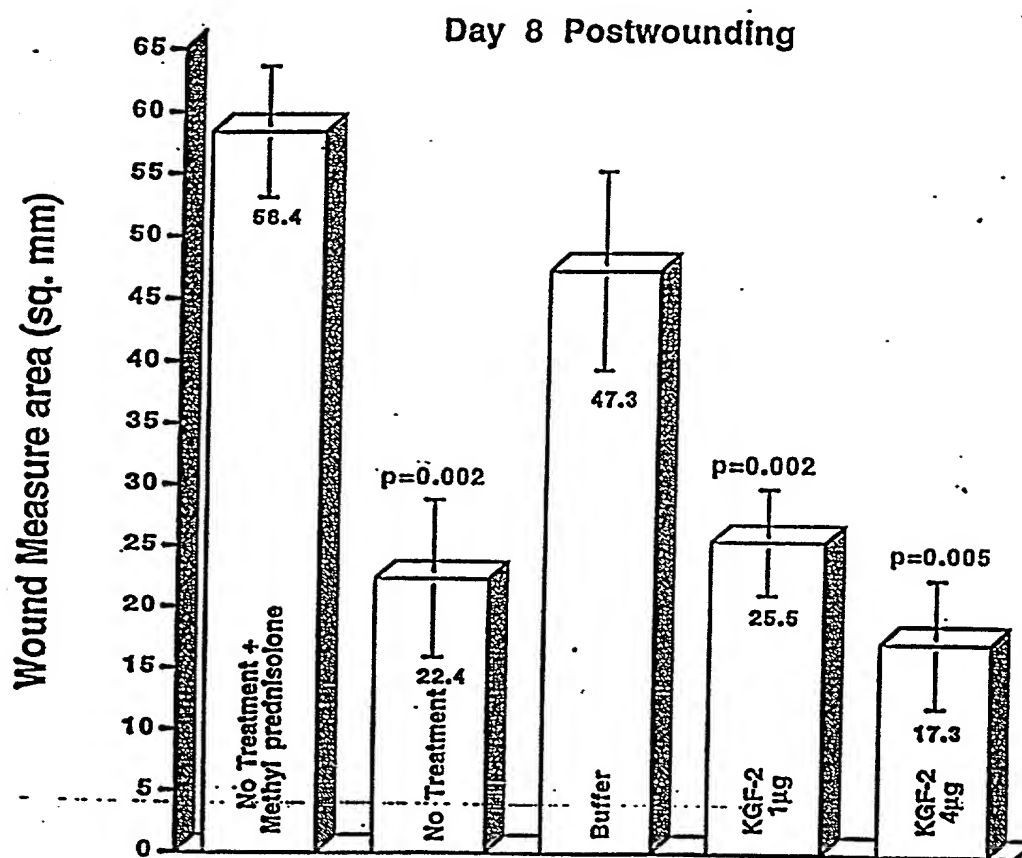
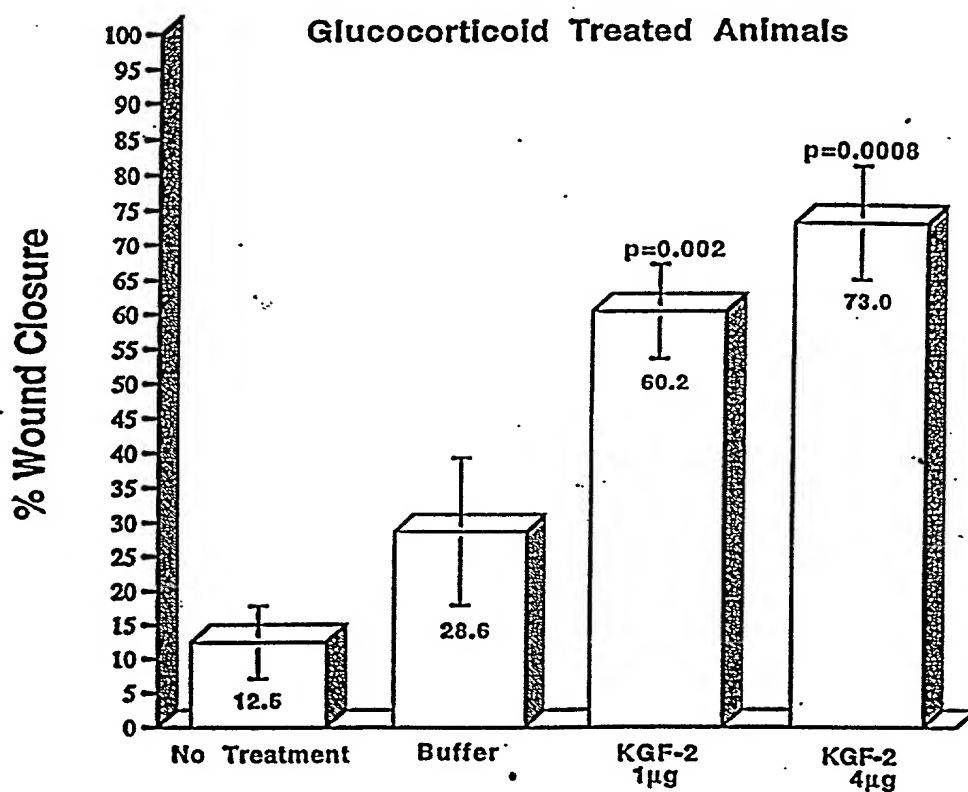
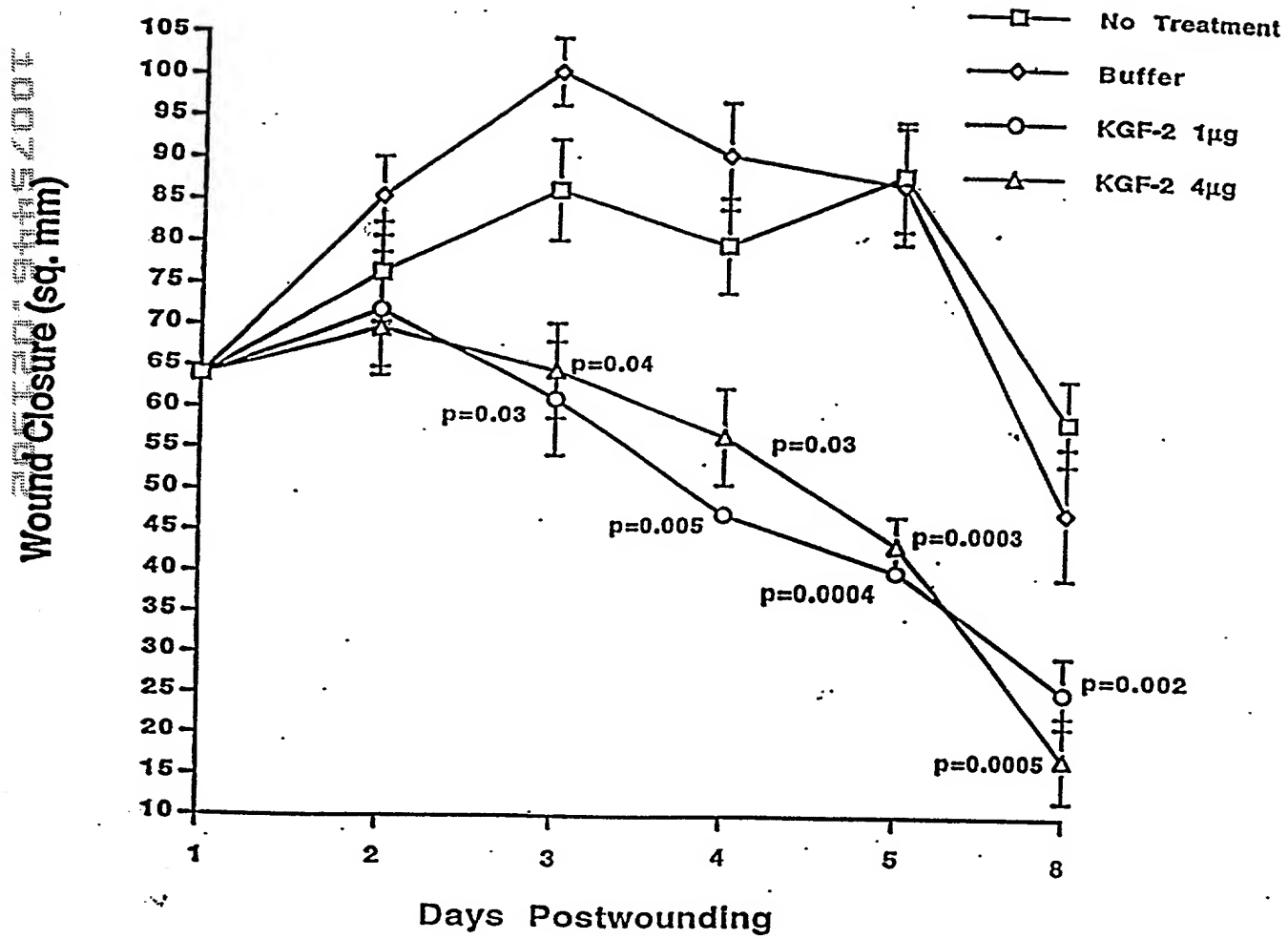


Figure 17



# Figure 18



**Figure 19A**

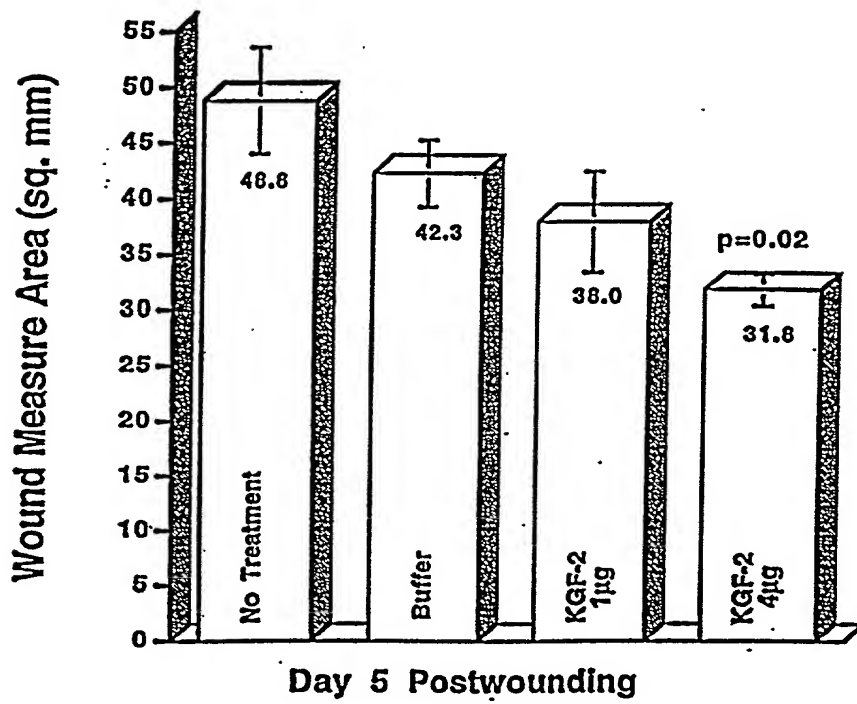


Figure 19B

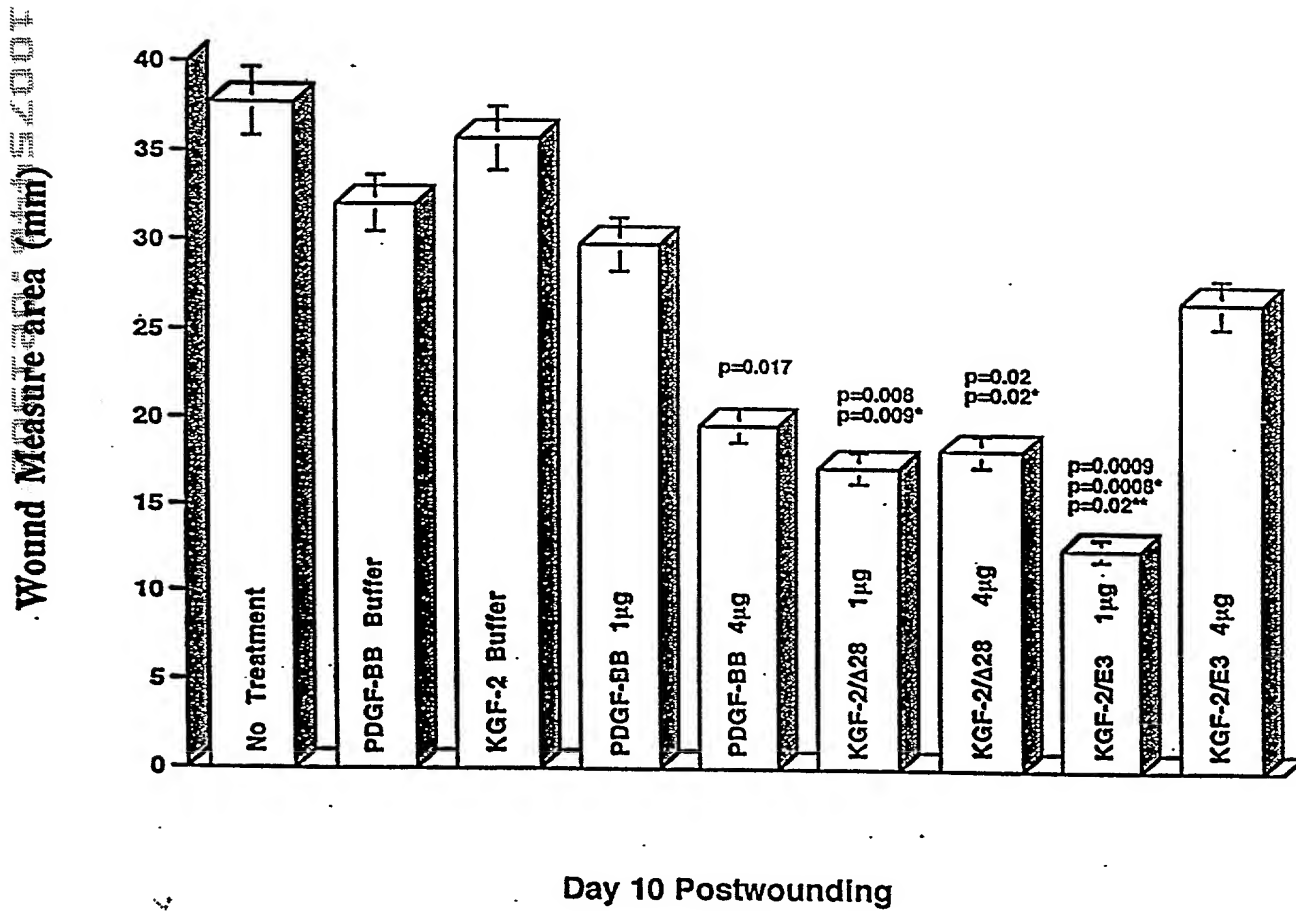




Figure 20

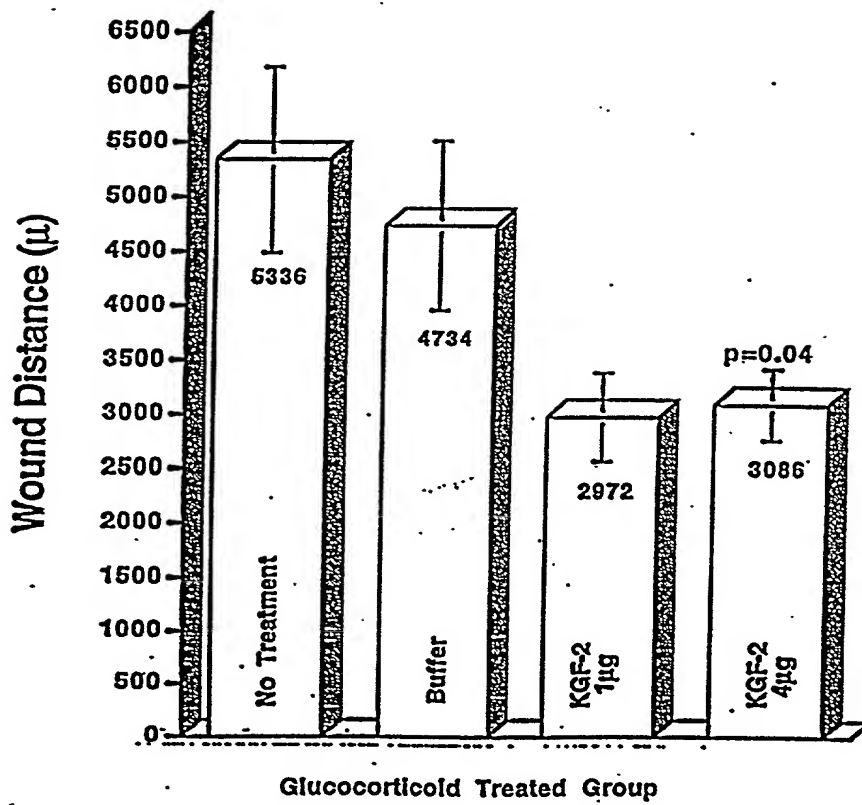


Figure 21A

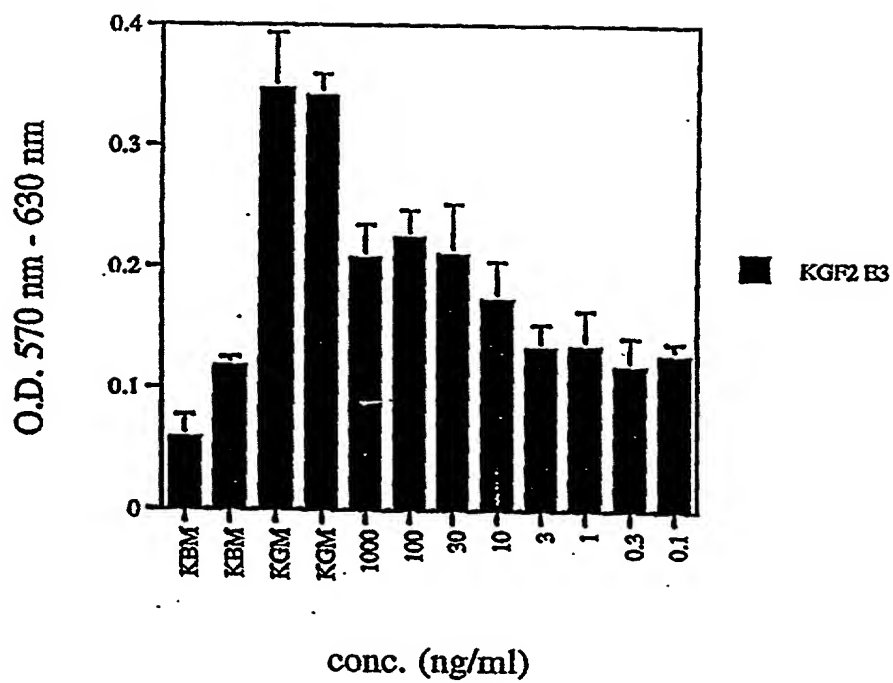


Figure 21B

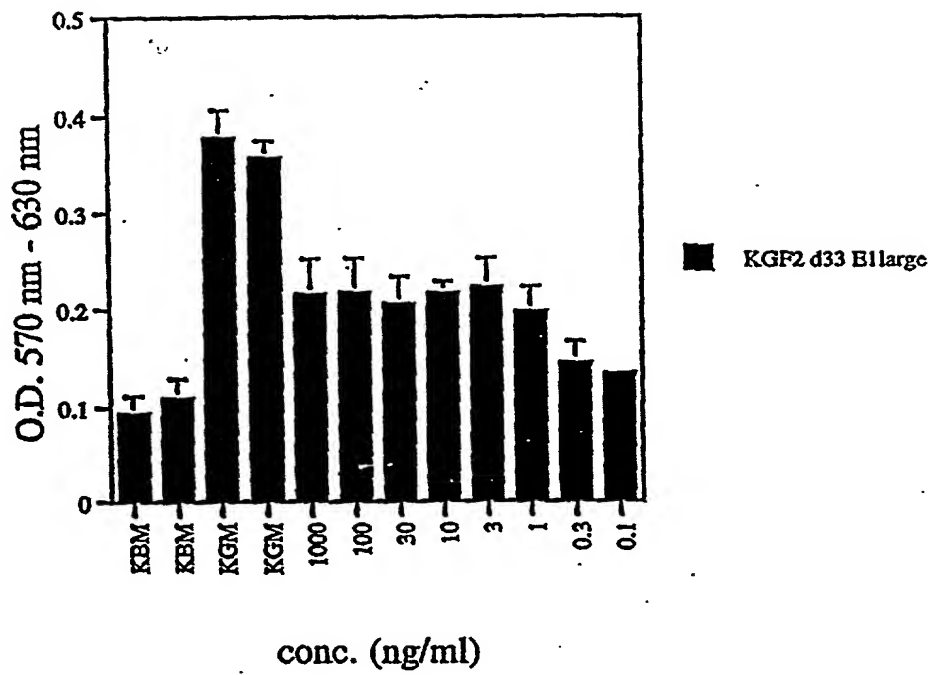


Figure 21C

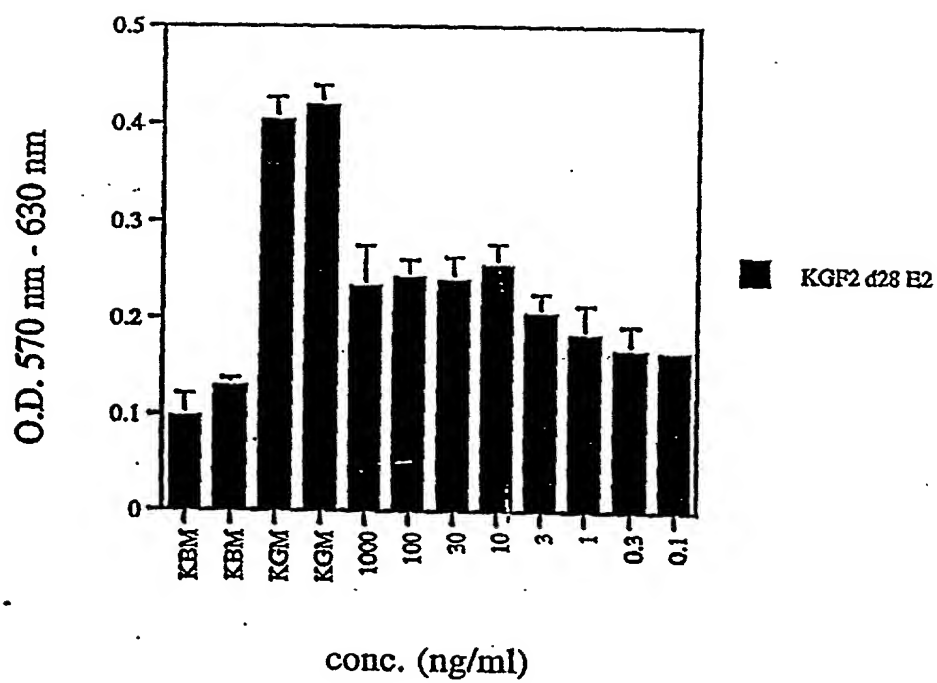


Figure 22A

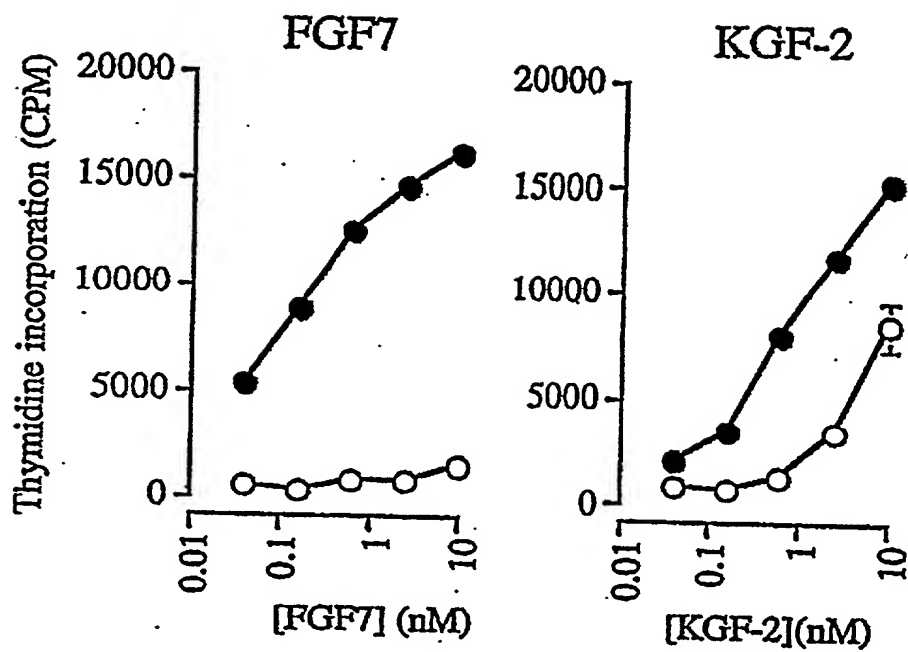


Figure 22B

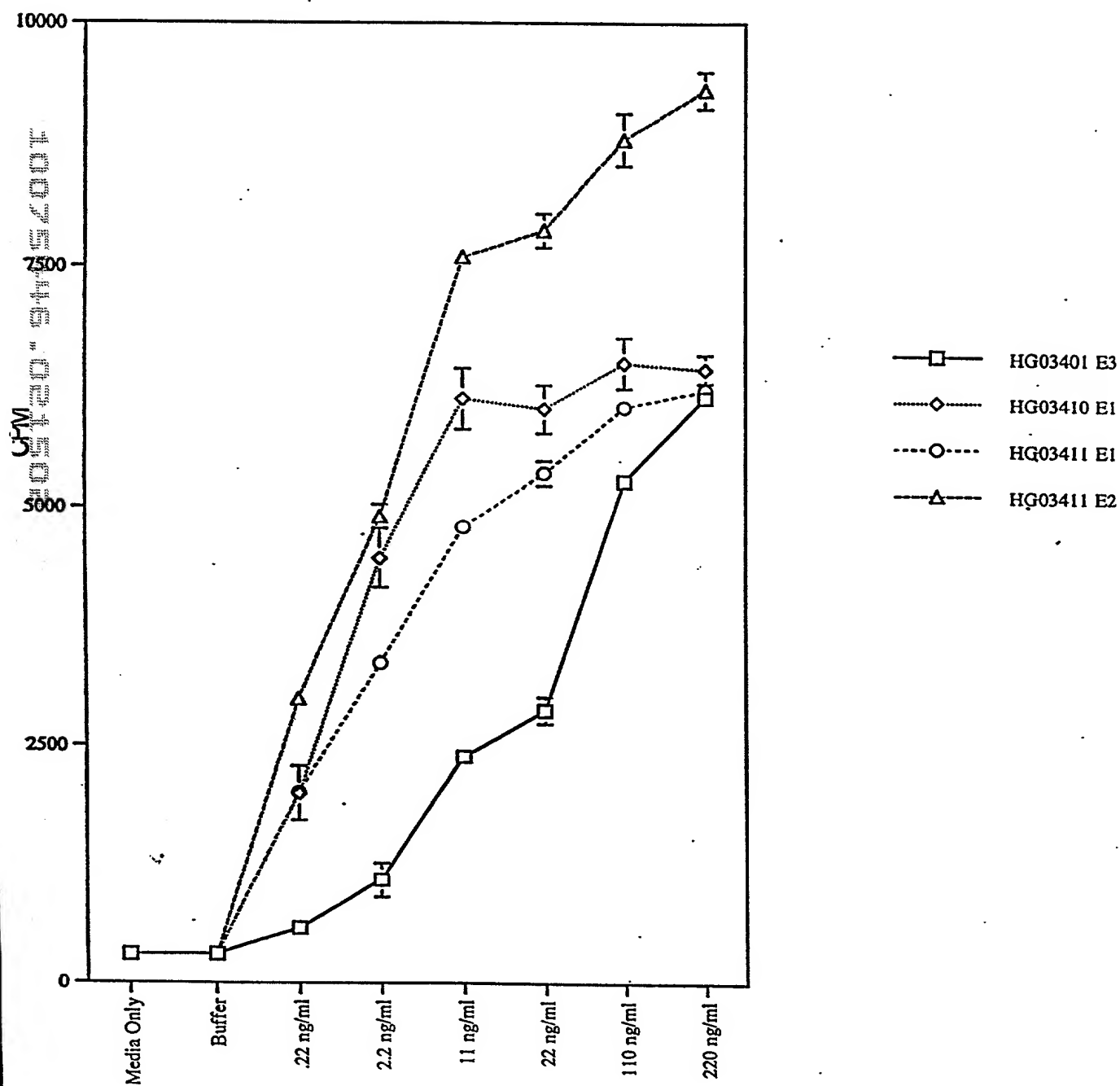
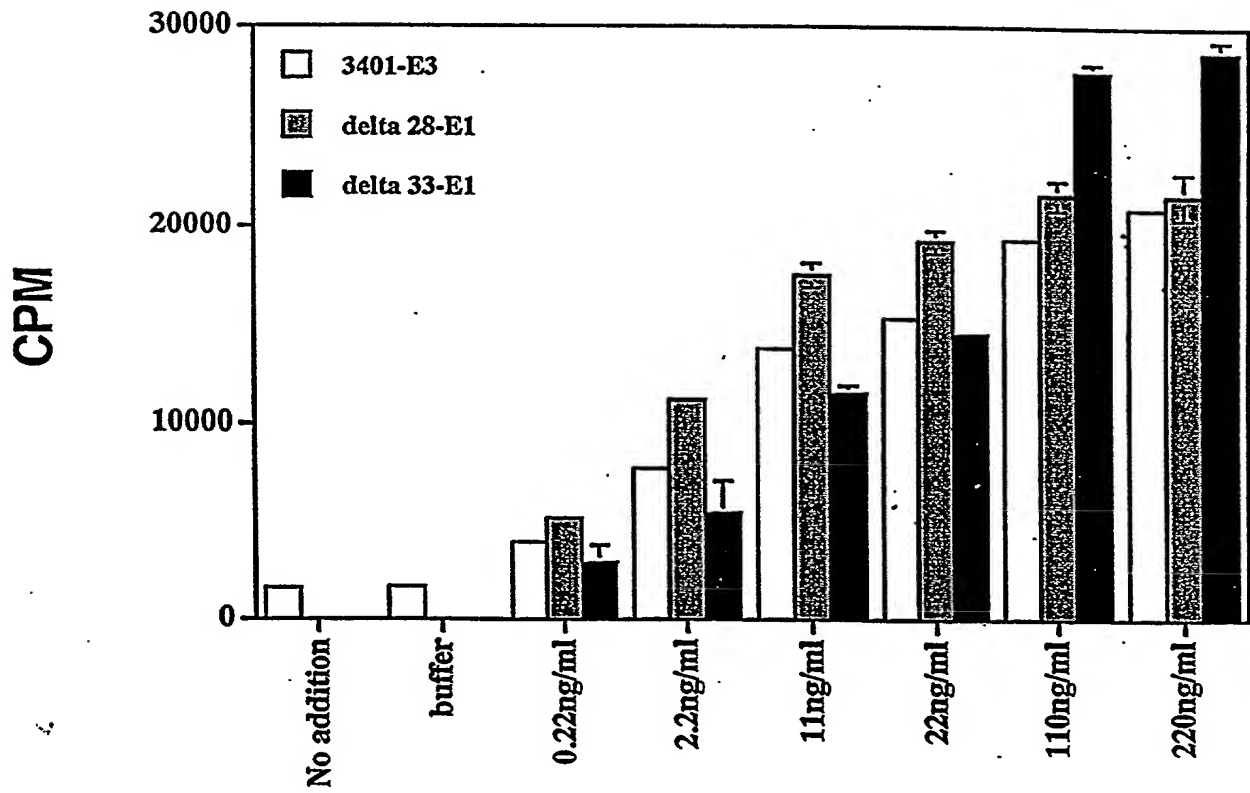


Figure 22C







## Figure 24A

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCCTCT 60  
Met Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu Ala Thr Asn Ser Ser Ser  
TCCTCTTTCTCTTCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCTGCAG 120  
Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr Asn His Leu Gln  
GGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCCTGAAAATCGAAAAA 180  
Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys  
AACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCGTACAGCATCCTGGAGATAACA 240  
Asn Gly Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr  
TCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATG 300  
Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met  
AACAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAATGACTGTAAGCTGAAGGAG 360  
Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu  
AGGATAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGG 420  
Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg  
CAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGG 480  
Gln Met Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg  
AAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG 525  
Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser •

# Figure 24B

ATGACTTGCCAGGCACTGGGTCAAGACATGGTTTCCCGGAAGCTACCAACAGCTCCAGCTCTAGCTTCA  
TACTGAACGGTCCGTGACCCAGTTCTGTACCAAGGGCCTTCGATGGTTGTCGAGGTCGAGATCGAAGT 70

M T C Q A L G Q D M V S P E A T N S S S S S F  
GCAGCCCATCTAGCGCAGGTCGTACGTTCTGCTCTTACAACCACTTACAGGGTGATGTTGCTTGGCGCAA  
CGTCGGGTAGATCGCGTCCAGCAGTGCAAGCGAGAATGTTGGTGAATGTCCCACTACAAGCAACCGCGTT 140

S S P S S A G R H V R S Y N H L Q G D V R W R K  
ACTGTTTCAGCTTTACCAAGTACTTCTGAAAATCGAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAG  
TGACAAGTCGAAATGGTTCATGAAGGACTTTTAGCTTTTTTGGCATTTCAAAGACCCTGGTTCTTCTC 210

L F S F T K Y F L K I E K N G K V S G T K K E  
AACTGCCCCGTACAGCATCCTGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACA  
TTGACGGGCATGTCGTAGGACCTCTATTGTAGTCATCTTAGCCTCAACAACGGCAGTTTCGGTAATTGT 280

N C P Y S I L E I T S V E I G V V A V K A I N  
GCAACTATTACTTAGCCATGAACAAGAAGGGGAACTCTATGGCTCAAAGAATTTAAACAATGACTGTAA  
CGTTGATAATGAATCGGTACTTGTCTTCCCTTTGAGATACCGAGTTTTCTTAAATTGTTACTGACATT 350

S N Y Y L A M N K K G K L Y G S K E F N N D C K  
GCTGAAGGAGAGGATAGAGGAAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGG  
CGACTTCCTCTCCTATCTCCTTTTACCTATGTTATGGATACGTAGTAAATTGACCGTCGTATTACCCTCC 420

L K E R I E E N G Y N T Y A S F N W Q H N G R  
CAAATGTATGTGGCATTGAATGAAAAAGGAGCTCCAAGGAGAGGACAGAAAAACGAAGGAAAAACACCT  
GTTTACATACACCGTAACCTTACCTTTTCTCGAGGTTCTCTCTGTCTTTTGTGCTTCTTTTGTGGA 490

Q M Y V A L N G K G A P R R G Q K T R R K N T  
CTGCTCACTTTCTTCCAATGGTGGTACACTCATAG  
GACGAGTGAAAGAAGGTTACCACCATGTGAGTATC 525

S A H F L P M V V H S

1075446 03450

## Figure 25

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC  
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CGAAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAAGCTGCCCGTACAGCATCC  
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TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAA  
TGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCAT  
TTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCT  
CCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAAT  
GGTGGTACACTCATAG

MTCQALGQDMVSPEATNSSSSSFSSPSSAGRHVRSYNHLQGDVRWRKLFSTKYFLKIE  
KNGKVSGETTKENCPYSILEITSVEIGVVAVKAINSYYLAMNKKGKLYGSKEFNNDCKL  
KERIEENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.

Figure 26

ATGGCTGGTCGTCACGTTCTTACAACCACCTGCAGGGTGACGTTGCGTTGGCGT  
AAACTGTTCTCTTTCACCAAATACTTCTGAAAATCGAAAAAACGGTAAAGTTTCT  
GGGACCAAGAAGGAGAACTGCCCGTACAGCATCCTGGAGATAACATCAGTAGAAAT  
CGGAGTTGTTGCCGTCAAAGCCATTAAACAGCAACTATTACTTAGCCATGAACAAGAA  
GGGGAAACTCTATGGCTCAAAGAATTAAACAATGACTGTAAGCTGAAGGAGAGGA  
TAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGG  
CAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACAC  
GAAGGAAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MAGRHVRSYNHLQGDVRWRKLFSFTKYFLKIEKNGKVSGTKKENCPYSILEITSVEIGV  
VAVKAINSYYLAMNKKGKLYGSKEFNNDCKLKERIEBNGYNTYASFNWQHNGRQMY  
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10075446.031502

Figure 27

ATGGTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCCTGAAAATCGAAAAA  
AACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCCGTACAGCATCCTGGAGAT  
AACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAAACAGCAACTATTACTT  
AGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAATGACTGTA  
AGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGG  
CAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAG  
AGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTAC  
ACTCATAG

MVRWRKLFSTKYFLKIEKNGKVSGETKKENCPYSILEITSVEIGVVAVKAINSNYYLAM  
NKKGKLYGSKEFNNDCKLKERIEENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQ  
KTRRKNTSAHFLPMVVHS.

205430 9445400

Figure 28

ATGGAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCCGTACAGCAT  
CCTGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCA  
ACTATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAAC  
AATGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATC  
ATTTAAGTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAG  
CTCCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCA  
ATGGTGGTACACTCATAG

MEKNGKVSGTKKENCPYSILEITSVEIGVVAVKAINSNYYLAMNKKGKLYGSKEFNND  
KLKERIEENGYNTRYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVH  
S.

Figure 29

ATGGAGAAGTACCGTACAGCATCCTGGAGATAACATCAGTAGAAATCGGAGTTGT  
TGCCGTCAAAGCCATTAAACAGCAACTATTACTTAGCCATGAACAAGAAGGGGAAAC  
TCTATGGCTCAAAGAATTAAACAATGACTGTAAGCTGAAGGAGAGGATAGAGGAA  
AATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGAGGCAAATGTA  
TGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGGAAA  
AACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MENCPYSILEITSVEIGVVAVKAINSNYYLAMNKKGKLYGSKEFNNDCKLKERIEENGY  
NTYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.

2007-03-04 15:00

## Figure 30

ATGGTCAAAGCCATTAAACAGCAACTATTACTTAGCCATGAACAAGAAGGGGAAACT  
CTATGGCTCAAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAGGATAGAGGAAA  
ATGGATACAATACCTATGCATCATTAACTGGCAGCATAATGGGAGGCAAATGTATG  
TGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAACACGAAGGAAAAA  
CACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MVKAINSNYYLAMNKKGKLYGSKEFNNDCKLKERIEENGYNTYASFNWQHNGRQMY  
VALNGKGAPRRGQKTRRKNTSAHFLPMVVHS.



Figure 31

ATGGGGAAACTCTATGGCTCAAAGAATTTAACAATGACTGTAAGCTGAAGGAGAG  
GATAGAGGAAAATGGATACAATACCTATGCATCATTTAACTGGCAGCATAATGGGA  
GGCAAATGTATGTGGCATTGAATGGAAAAGGAGCTCCAAGGAGAGGACAGAAAAC  
ACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAATGGTGGTACACTCATAG

MGKLYGSKEFNNDCKLKERIBENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQKT  
RRKNTSAHFLPMVVHS.

## Figure 32

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC  
TCTTCCTCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCT  
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTTTTACCAAATACTTCCTGAAAAT  
CGAAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCGTACAGCATCC  
TGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC  
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAA  
TGACTGTAAGCTGAAG

MTCQALGQDMVSPEATNSSSSSFSSPSSAGRHVRSYNHLQGDVRWRKLFSTKYFLKIE  
KNGKVSGTKKENCPYSILEITSVEIGVVAVKAINSNYYLAMNKKGKLYGSKEFNNDCKL  
K

**Figure 33**

ATGGCTGGTCGTCACGTTTCGTTCTTACAACCACCTGCAGGGTGACGTTTCGTTGGCGT  
AAACTGTTCTCTTTCACCAAATACTTCCTGAAAATCGAAAAAACGGTAAAGTTTCT  
GGGACCAAGAAGGAGAACTGCCCCGTACAGCATCCTGGAGATAACATCAGTAGAAAT  
CGGAGTTGTTGCCGTCAAAGCCATTAACAGCAACTATTACTTAGCCATGAACAAGAA  
GGGGAAACTCTATGGCTCAAAGAATTTAACAATGACTGTAAGCTGAAG  
MAGRHVRSYNHLQGDVRWRKLFSTKYFLKIEKNGKVSGTKKENCPYSILEITSVEIGV  
VAVKAINSYYLAMNKKGKLYGSKEFNNDCKLK

## Figure 34

C-37 To Ser

ATGACCTCTCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC  
TCTTCCTCTTTCTCTTCCCCGCTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACCT  
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTTTACCAAATACTTCCTGAAAAT  
CGAAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTGCCCCGTACAGCATCC  
TGGAGATAACATCAGTAGAAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC  
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAGAATTTAACAA  
TGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCAT  
TTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCT  
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GGTGGTACACTCATAG

205720-54

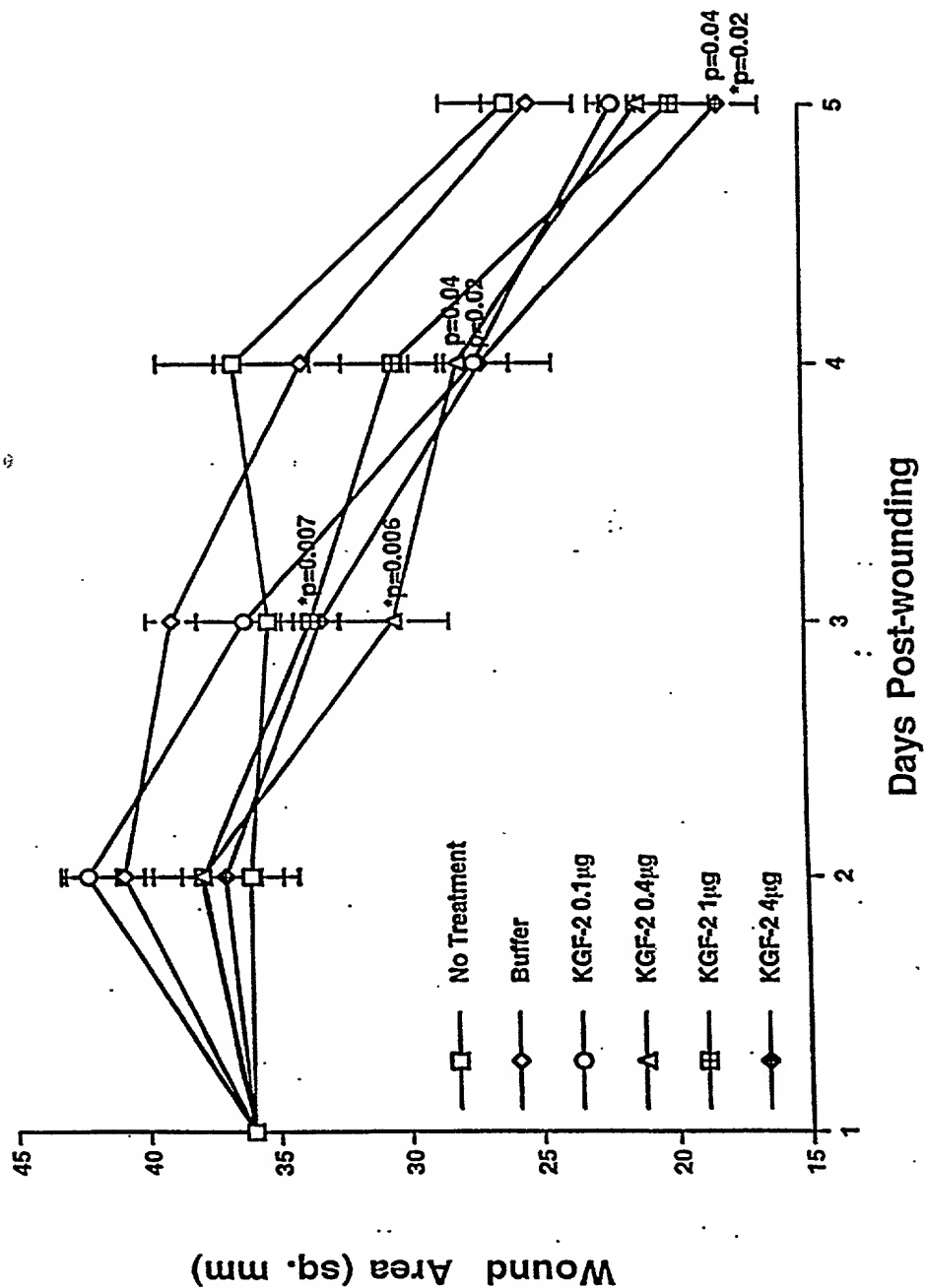
## Figure 35

: C-106 To Ser

ATGACCTGCCAGGCTCTGGGTCAGGACATGGTTTCTCCGGAAGCTACCAACTCTTCC  
TCITCCTCTTTCTCTTCCCCGTCTTCCGCTGGTCGTCACGTTTCGTTCTTACAACCACT  
GCAGGGTGACGTTTCGTTGGCGTAAACTGTTCTCTTTCACCAAATACTTCCTGAAAAT  
CGAAAAAACGGTAAAGTTTCTGGGACCAAGAAGGAGAACTCTCCGTACAGCATCC  
TGGAGATAACATCAGTAGAAATCGGAGTTGTTGCCGTCAAAGCCATTAACAGCAAC  
TATTACTTAGCCATGAACAAGAAGGGGAAACTCTATGGCTCAAAAGAATTTAACAA  
TGACTGTAAGCTGAAGGAGAGGATAGAGGAAAATGGATACAATACCTATGCATCAT  
TTAACTGGCAGCATAATGGGAGGCAAATGTATGTGGCATTGAATGGAAAAGGAGCT  
CCAAGGAGAGGACAGAAAACACGAAGGAAAAACACCTCTGCTCACTTTCTTCCAAT  
GGTGGTACACTCATAG

205720-944500T

Figure 36



# Figure 37

## Effect of KGF-2 Δ33 on Normal Wound Healing Rat Model

Treatment Groups	Wound Size (mm)	%Wound Closure	Histological Score	Re-epith. (μm)	BrdU Score
No Treatment	25.9 ± 2.5	58.8 ± 3.7	6.8 ± 0.2	1142 ± 141	3.8 ± 0.4
Buffer	25.1 ± 1.7	60.2 ± 2.6	6.4 ± 0.2	923 ± 61	5.0 ± 0.4
KGF-2/Δ33 (0.1μg)	22.0 ± 0.9	65 ± 1.4	6.8 ± 0.2	1275 ± 148	4.6 ± 0.7
KGF-2/Δ33 (0.4 μg)	21.1 ± 1.4	68.4 ± 2.4	8.0 ± 0.5 p=0.0445*	1310 ± 182	4.2 ± 0.7
KGF-2/Δ33 (1.0μg)	19.9 ± 1.5	66.2 ± 2.1	8.4 ± 0.4 p=0.0159* p=0.0053†	1389 ± 115 p=0.0074†	3.3 ± 0.25 p=0.0217†
KGF-2/Δ33 (4.0μg)	18.1 ± 1.6 p=0.0398* p=0.0200†	71.2 ± 2.6 p=0.0367* p=0.0217†	8.5 ± 0.3 p=0.0047* p=0.0445†	1220 ± 89 p=0.0254†	5.3 ± 0.9

**Figure 38**

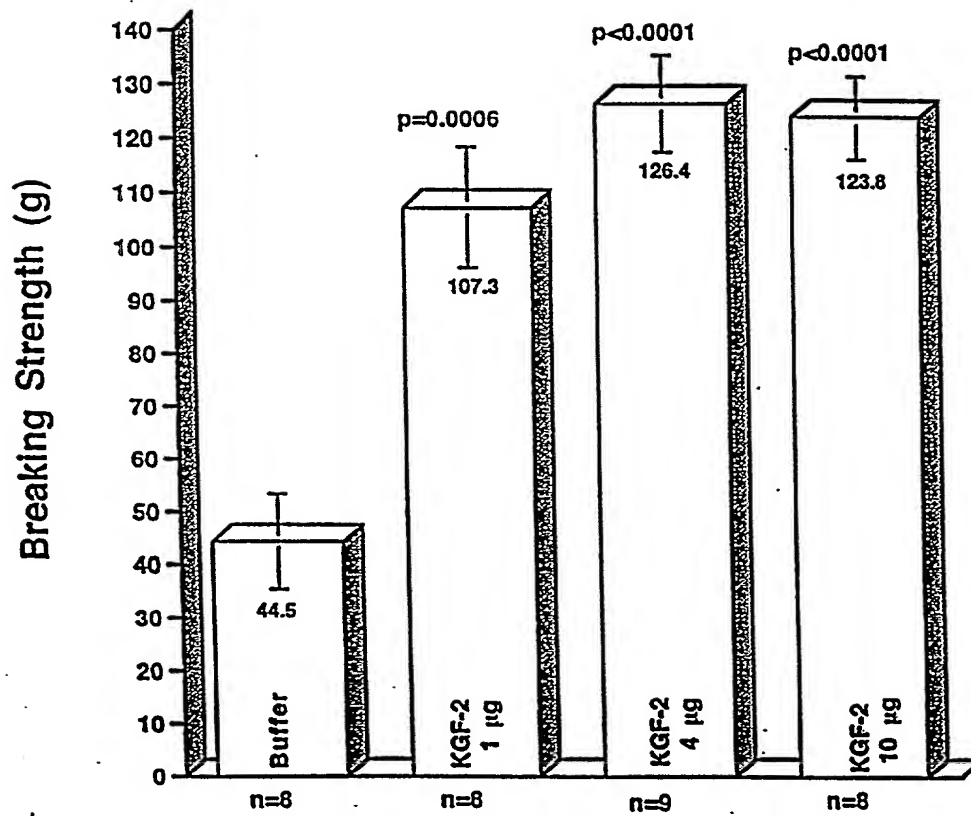
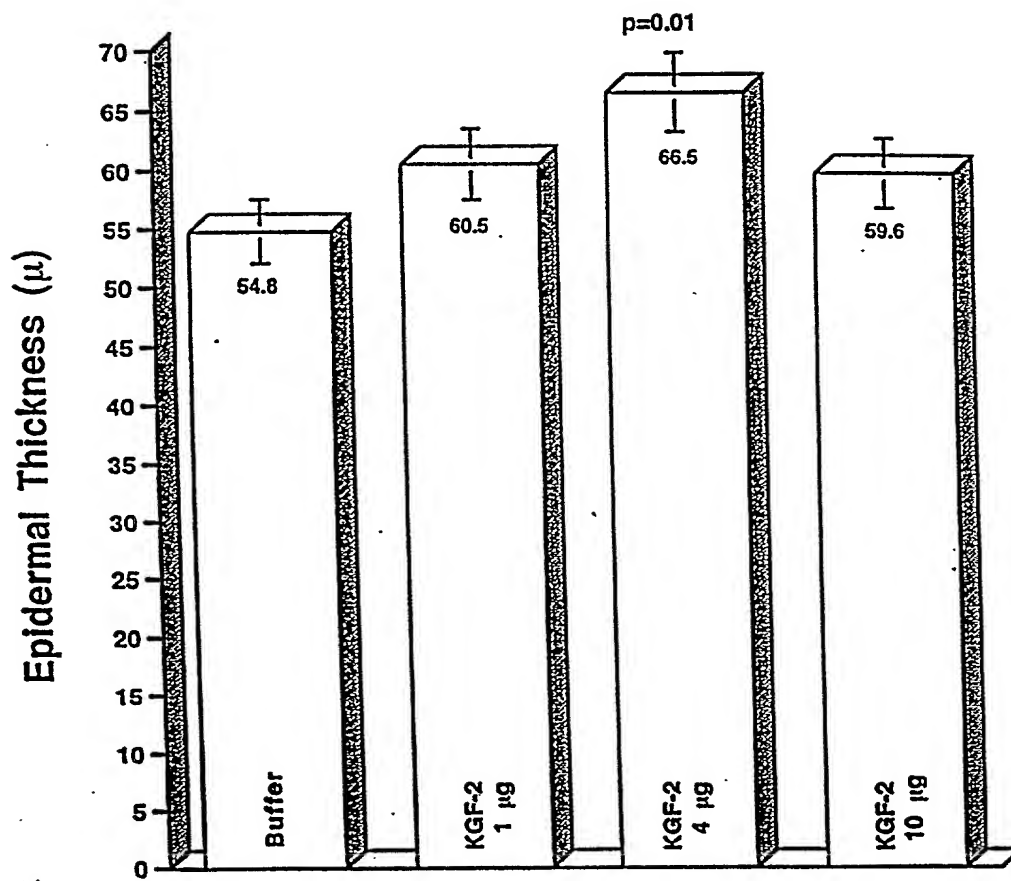




Figure 39



**Figure 40**

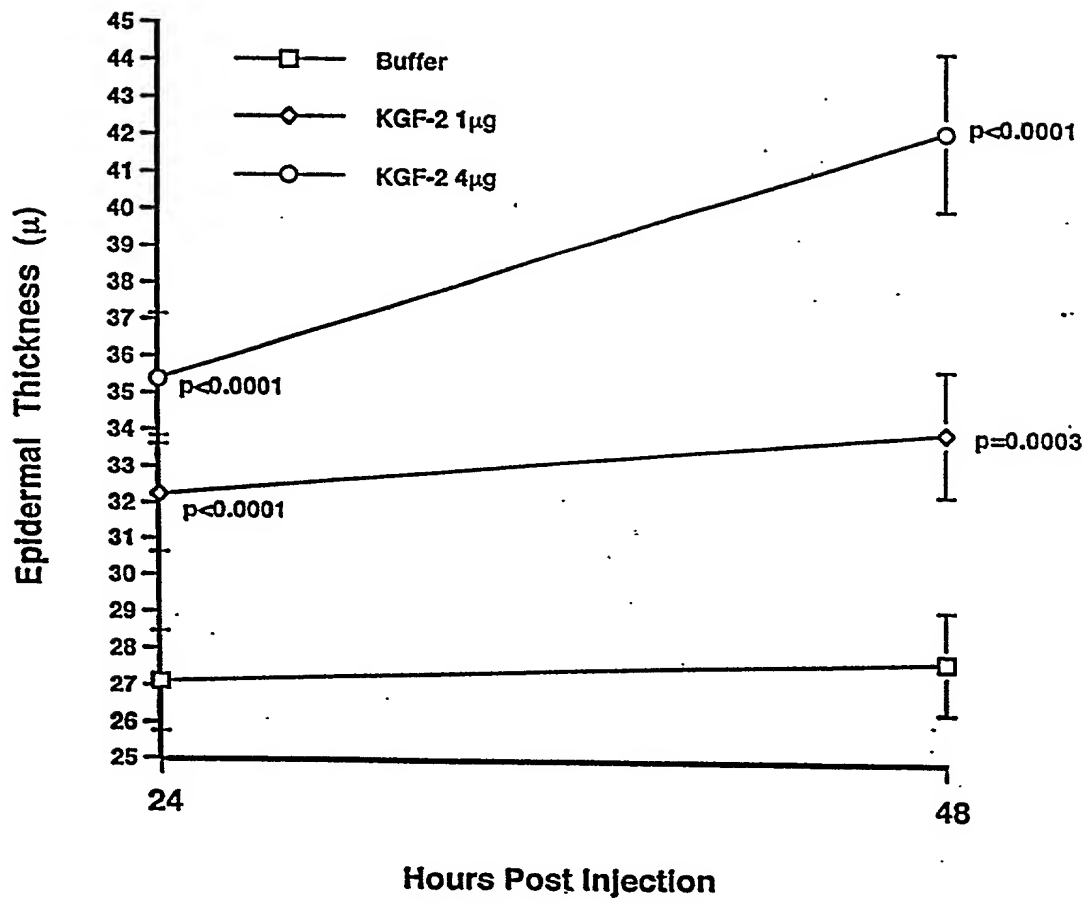
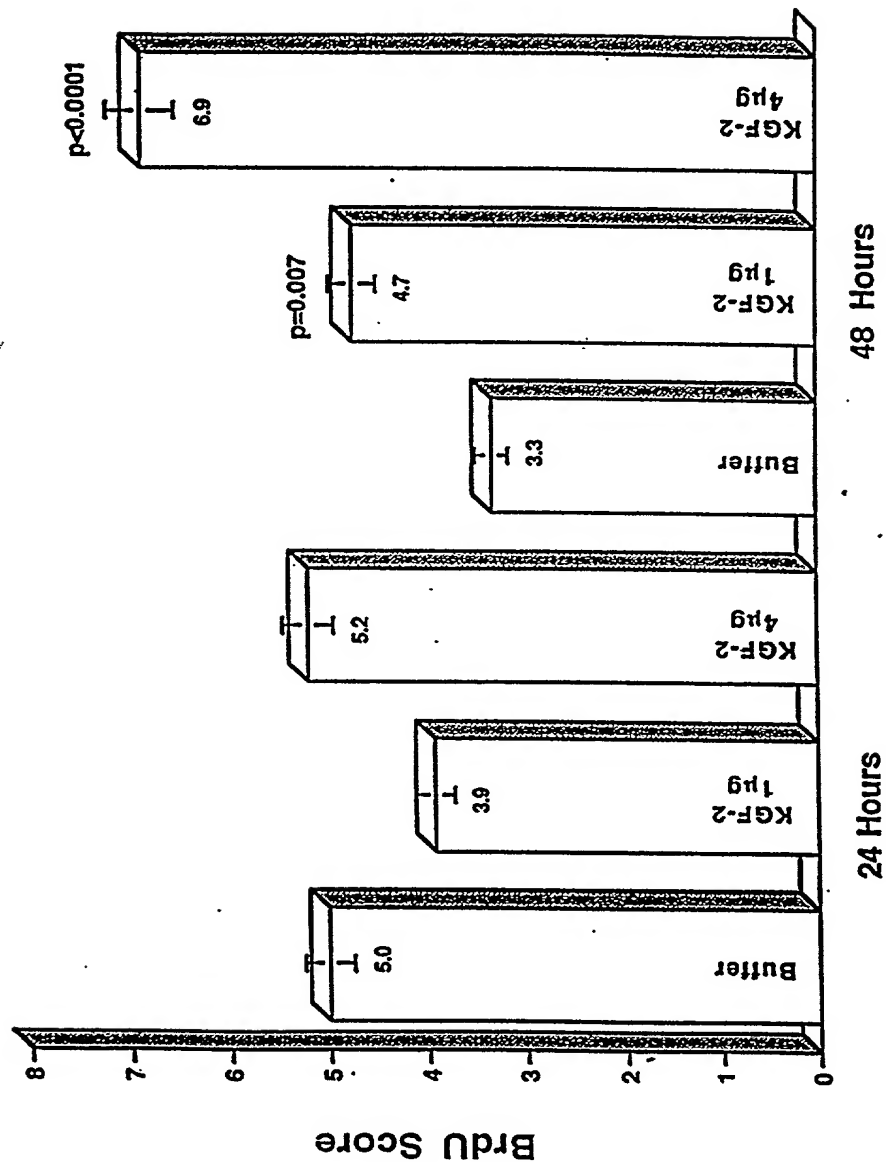
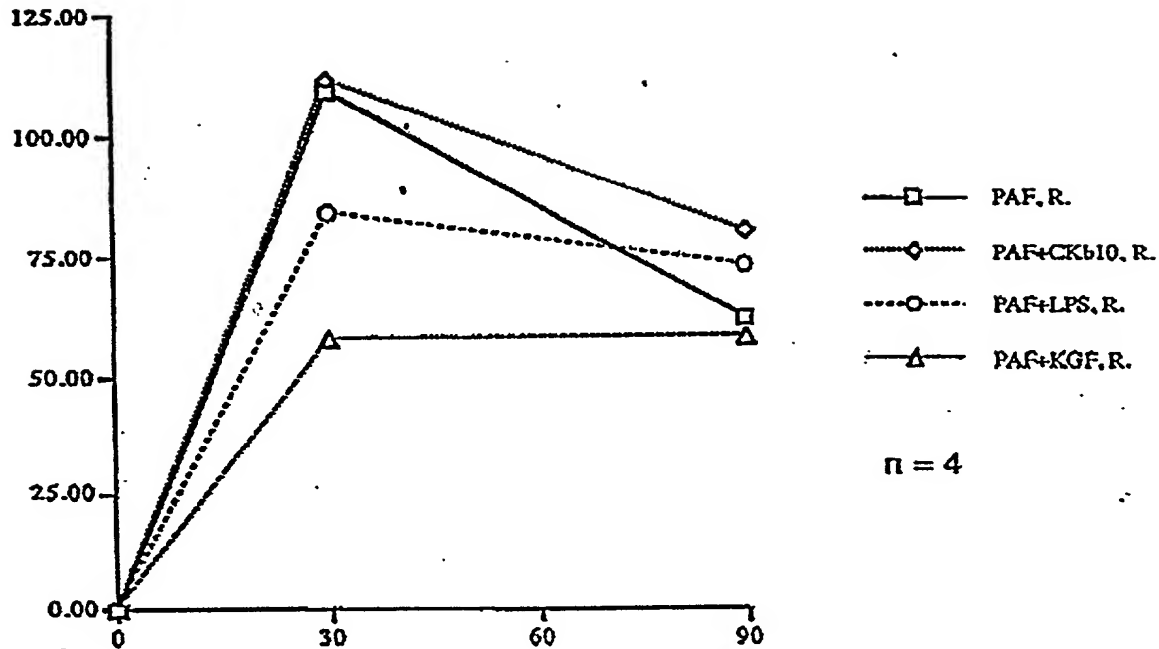


Figure 41

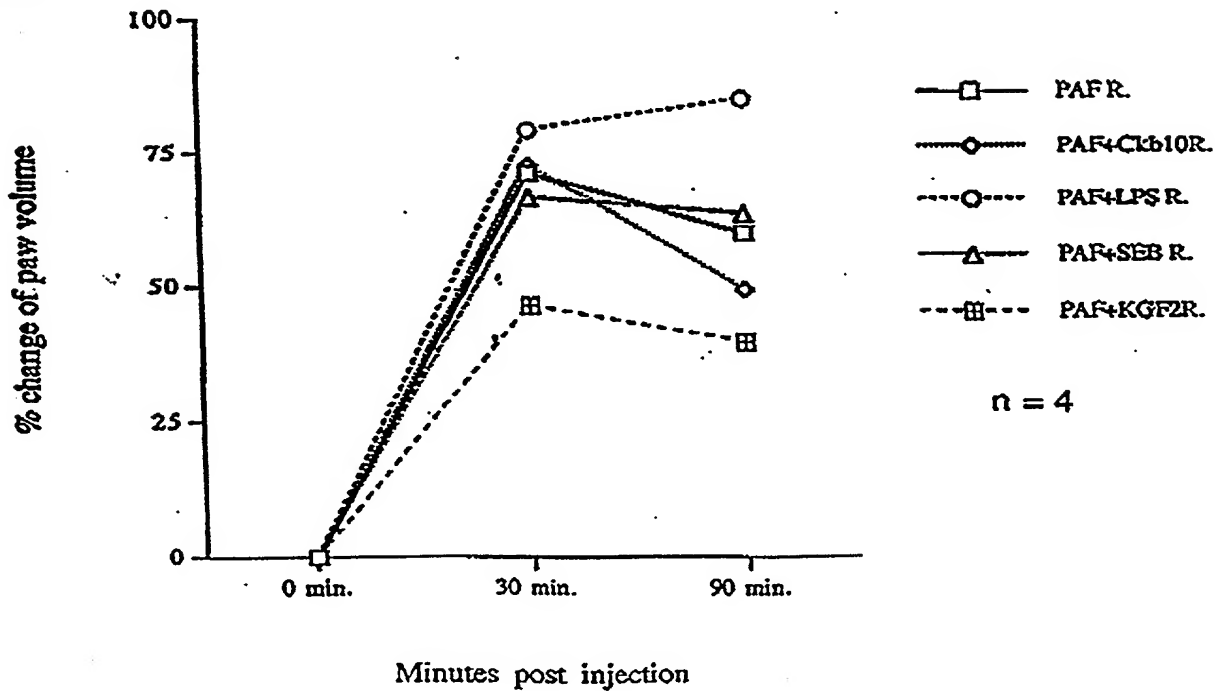


# Figure 42

No.1



No.2



Effect of KGF-2  $\Delta 33$  on PAF-induced paw edema in Lewis rats

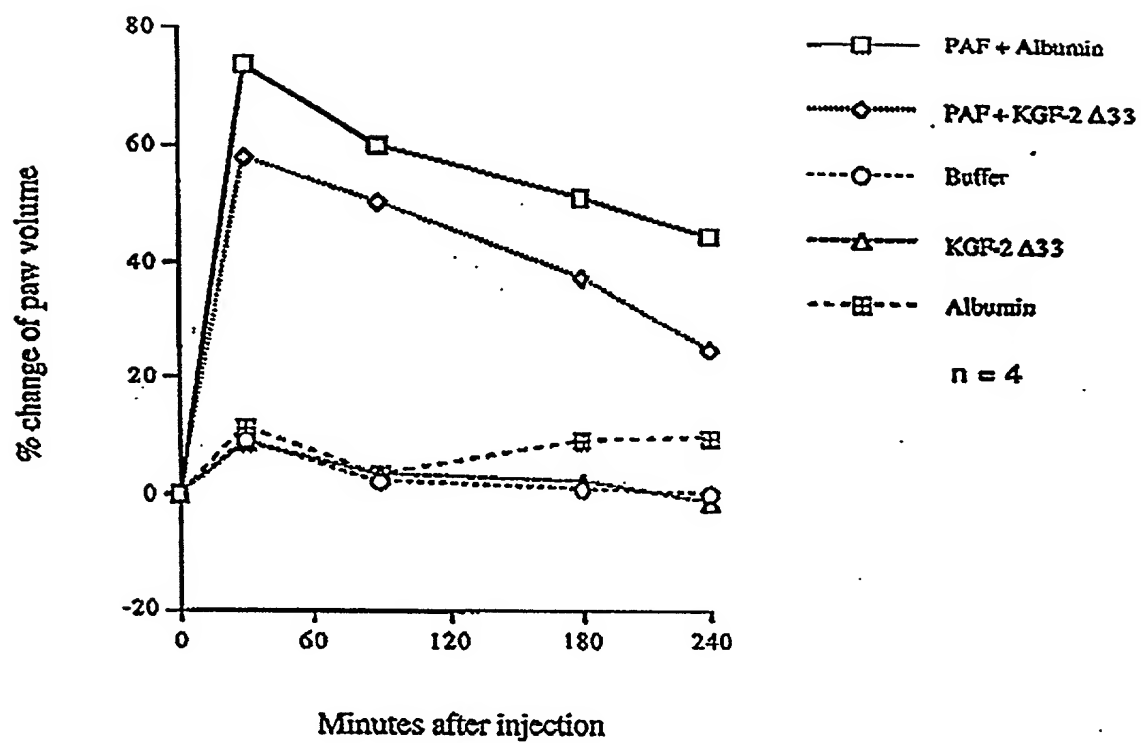


Figure 43

## Effect of KGF-2 $\Delta 33$ on Survival of Whole Body Irradiated Balb/c Mice

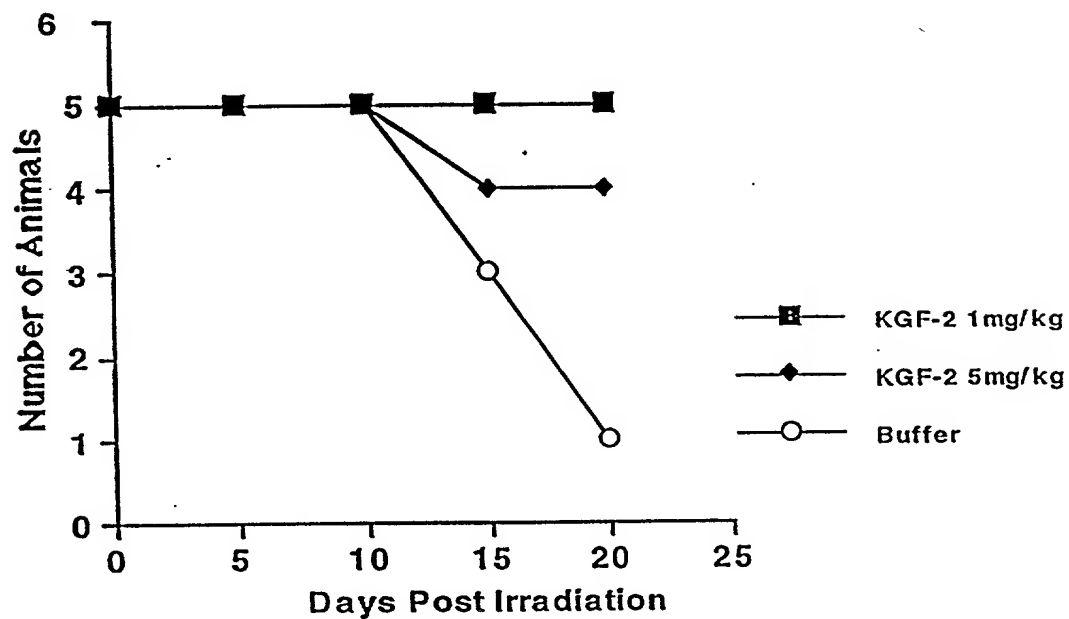


Figure 44

# Effect of KGF-2 $\Delta 33$ on Body Weight of Irradiated Mice

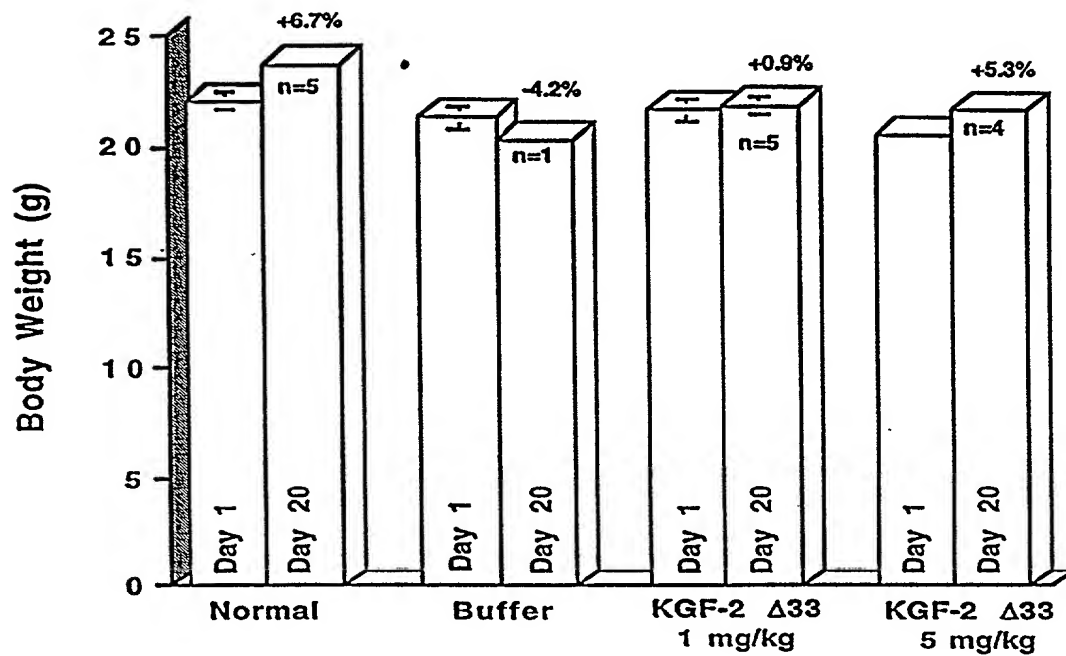


Figure 45

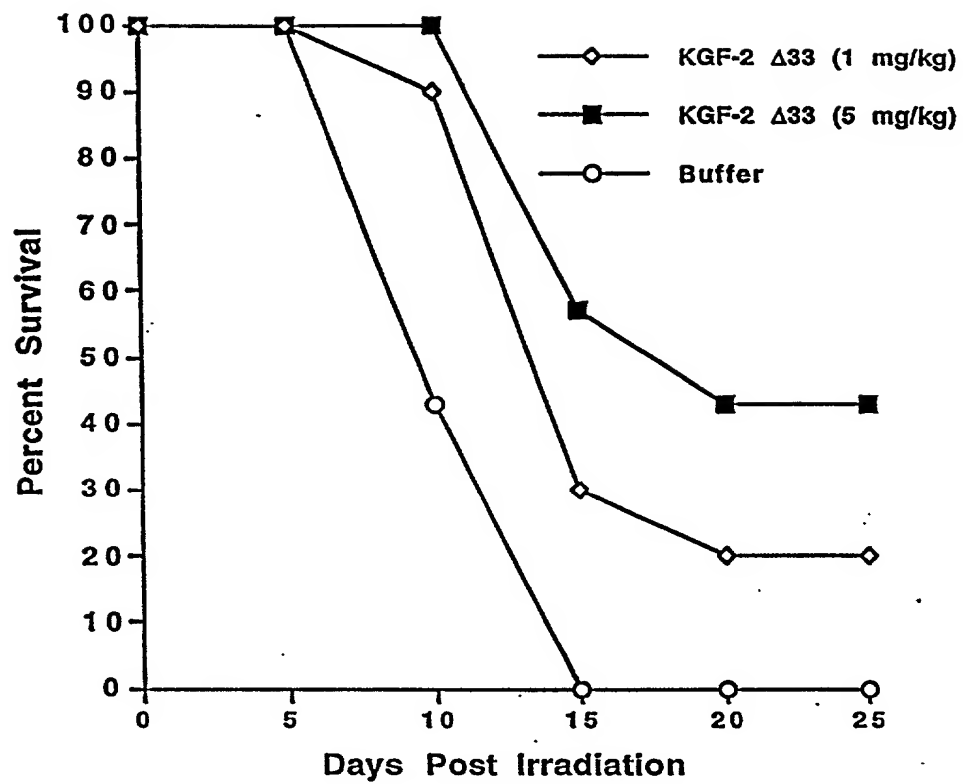


Figure 46



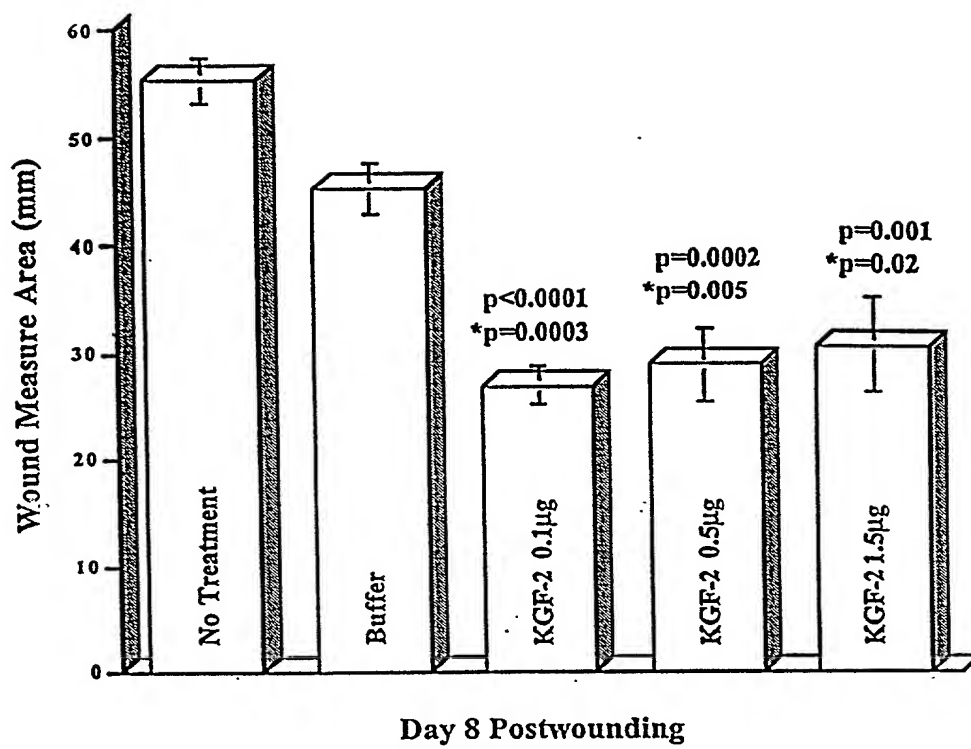
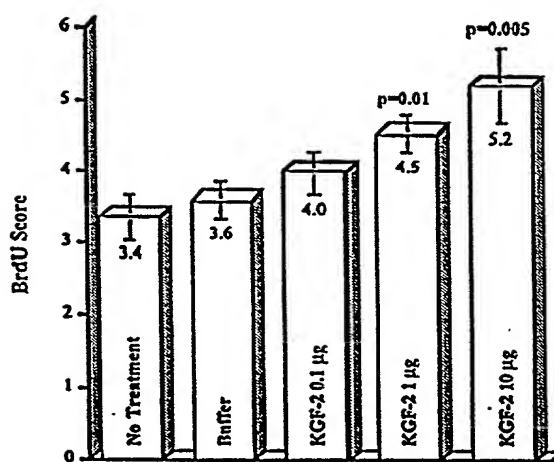


Figure 47

Figure 48



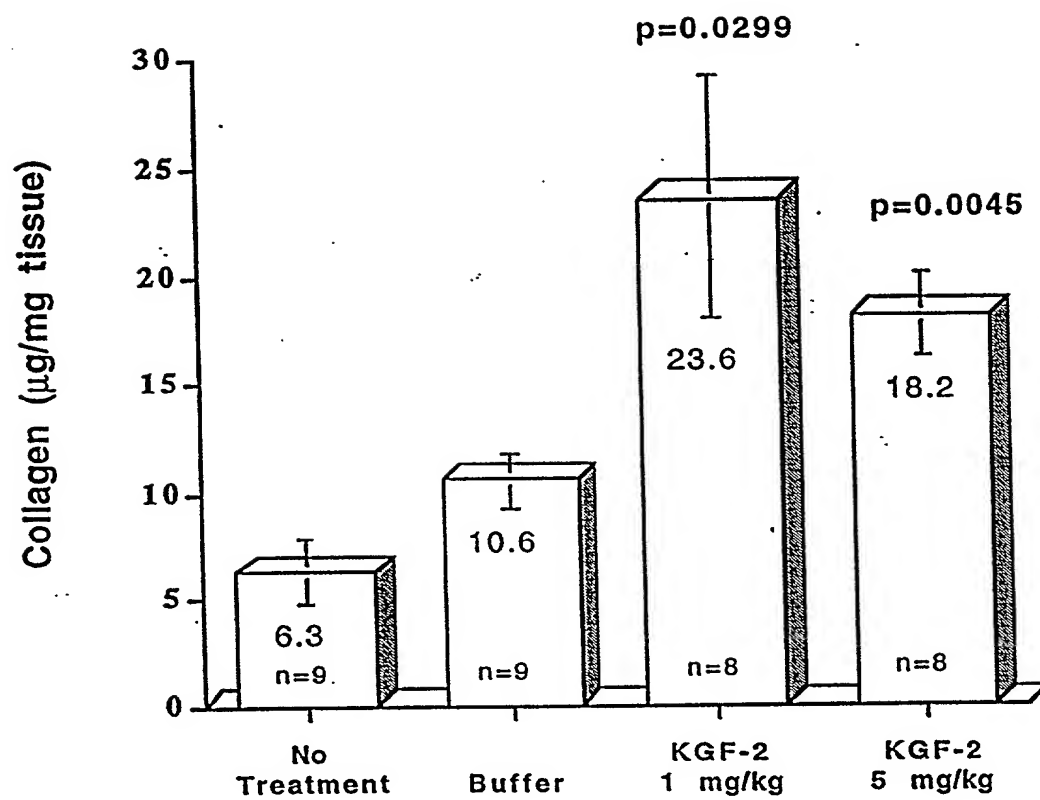


Figure 49

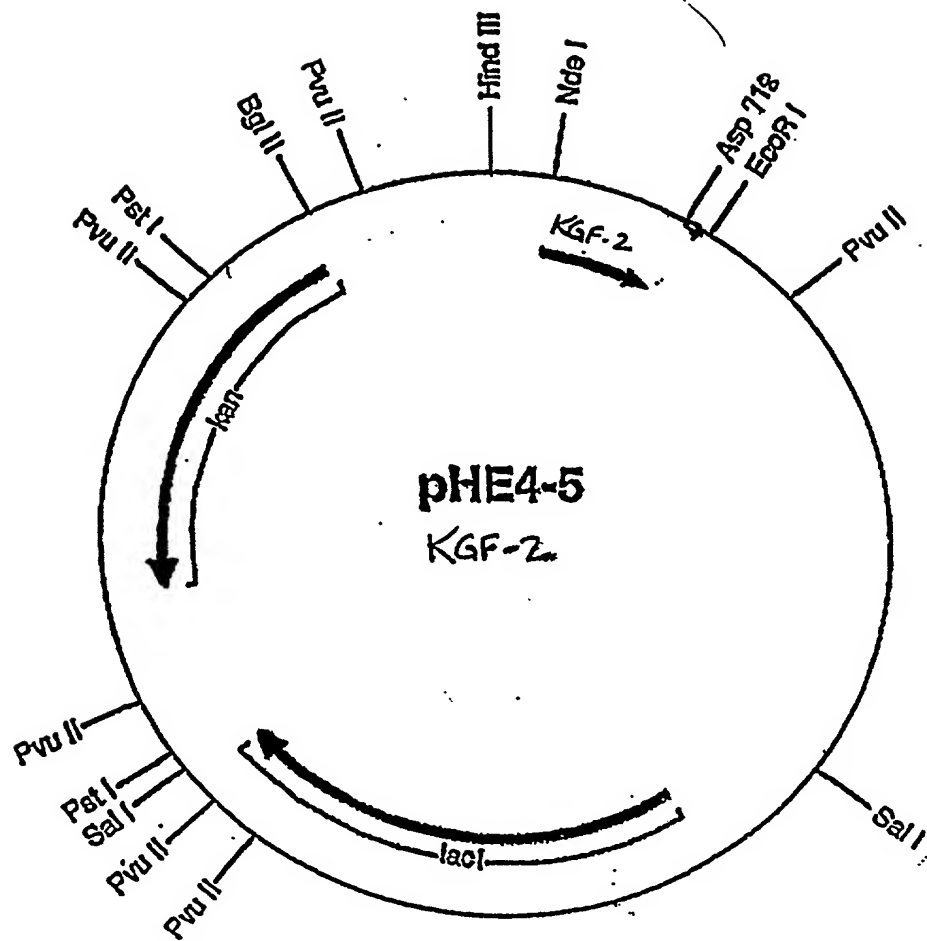
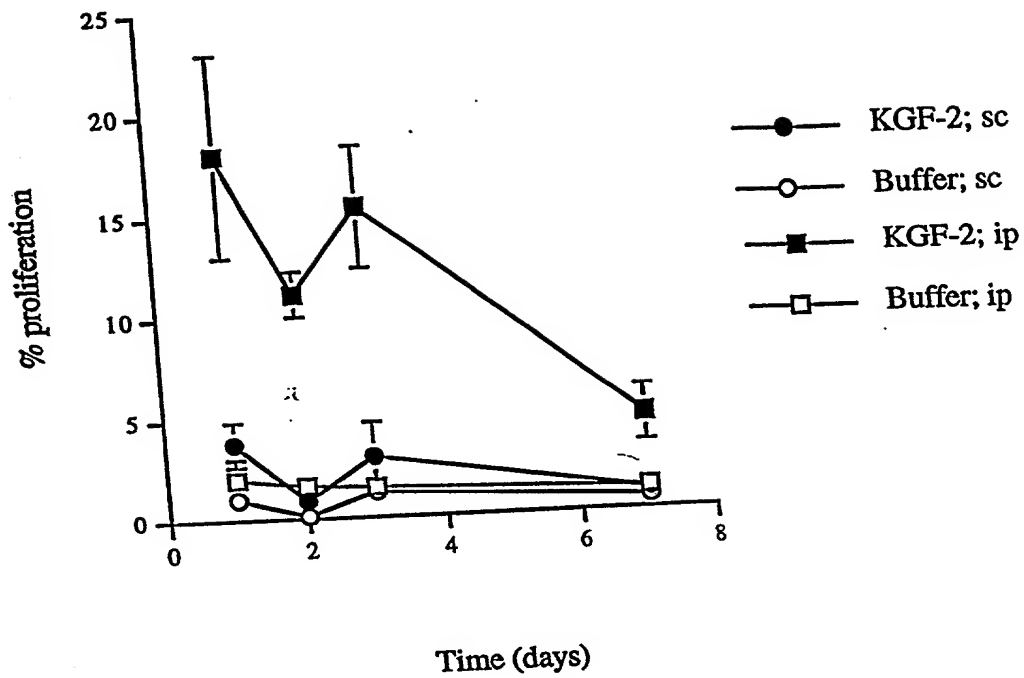
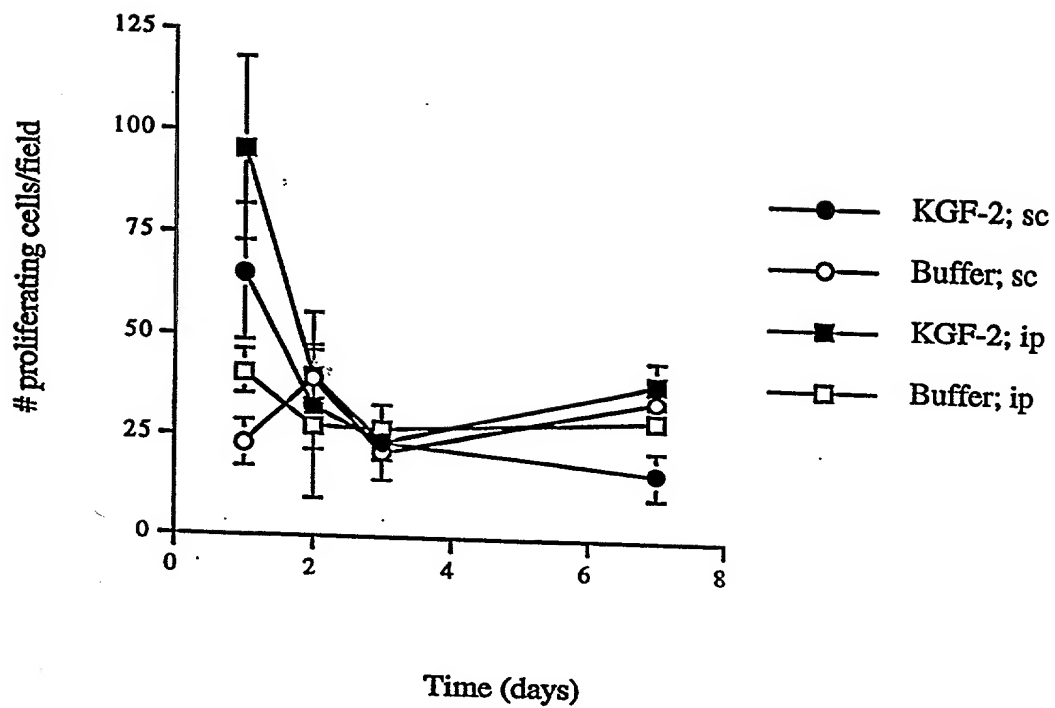


FIGURE 50





**FIGURE 52**



**FIGURE 53**

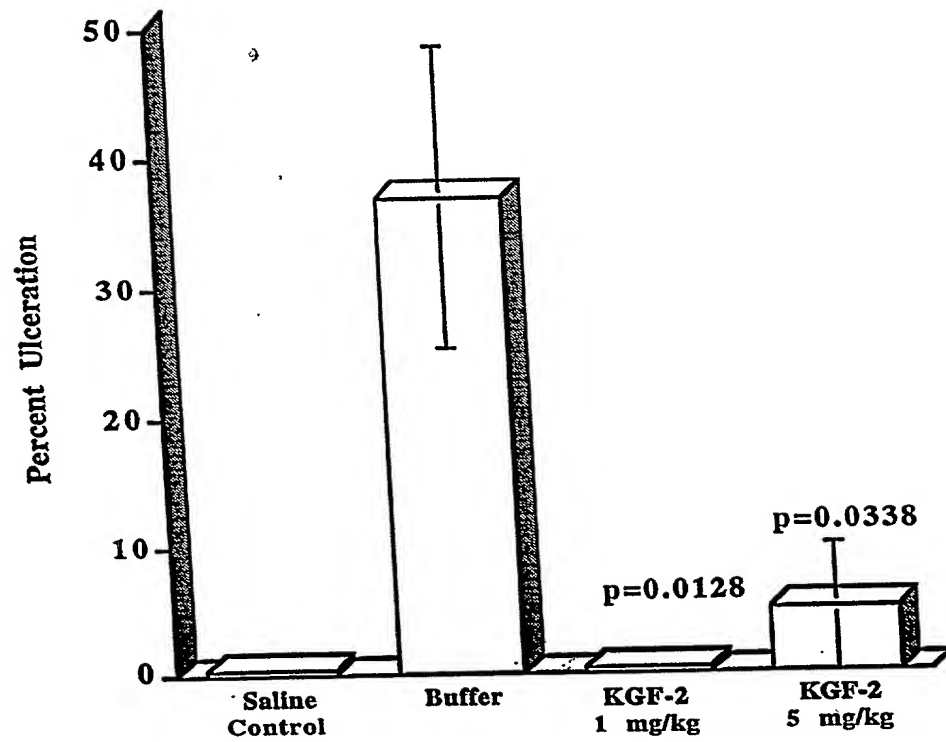


FIGURE 54



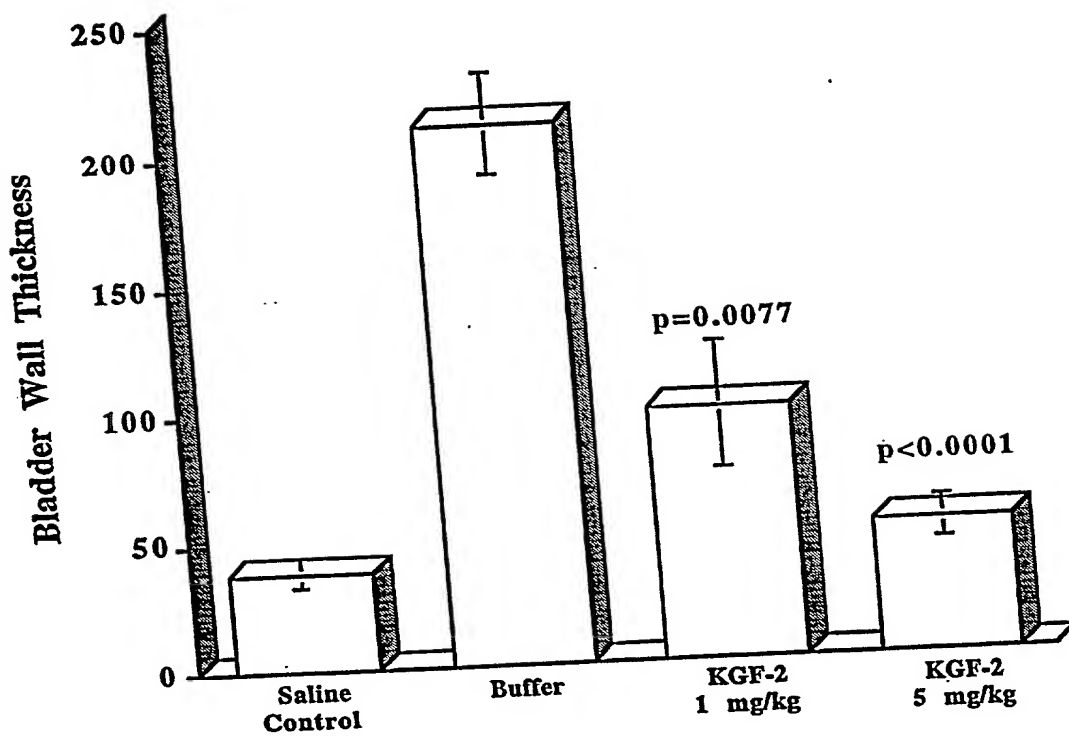
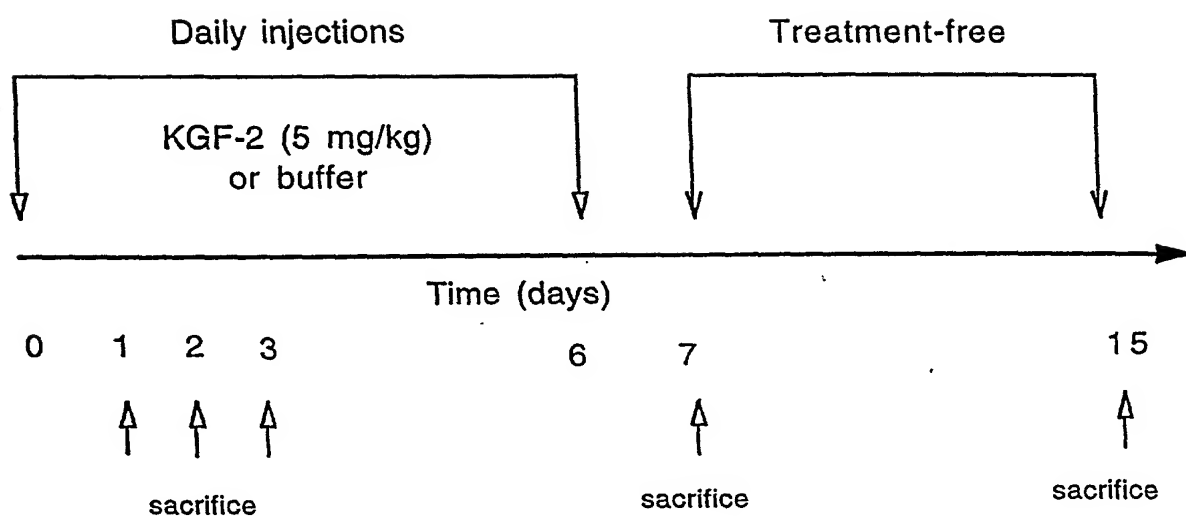
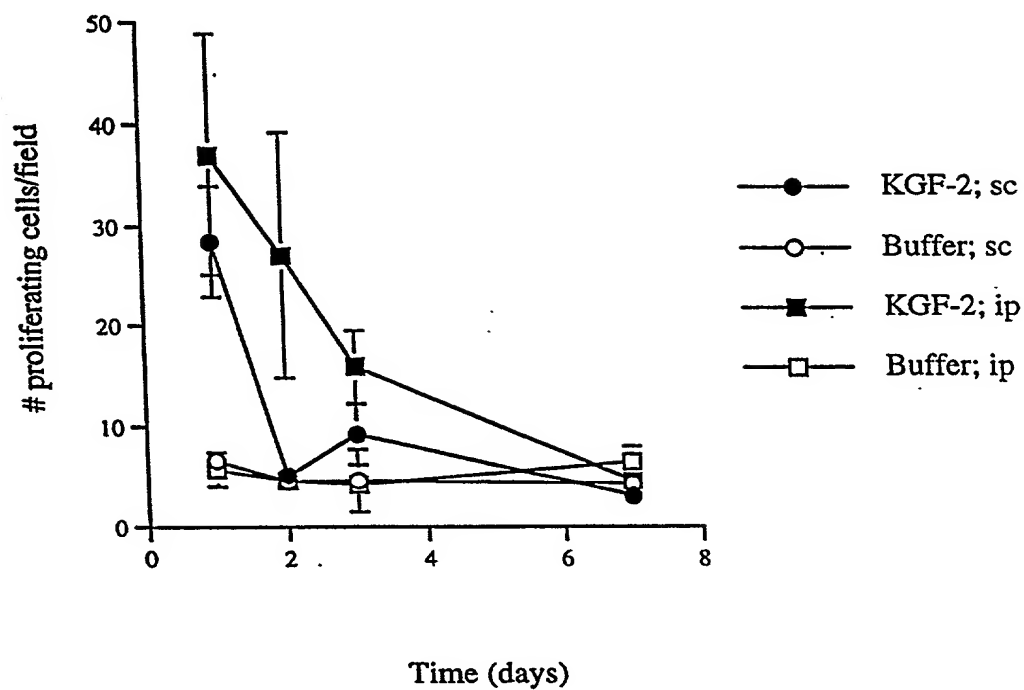


FIGURE 55



**FIGURE 56**

# Proliferation of hepatocytes following systemic administration of KGF-2



**FIGURE 57**

Proliferation of pancreatic cells following systemic administration of KGF-2

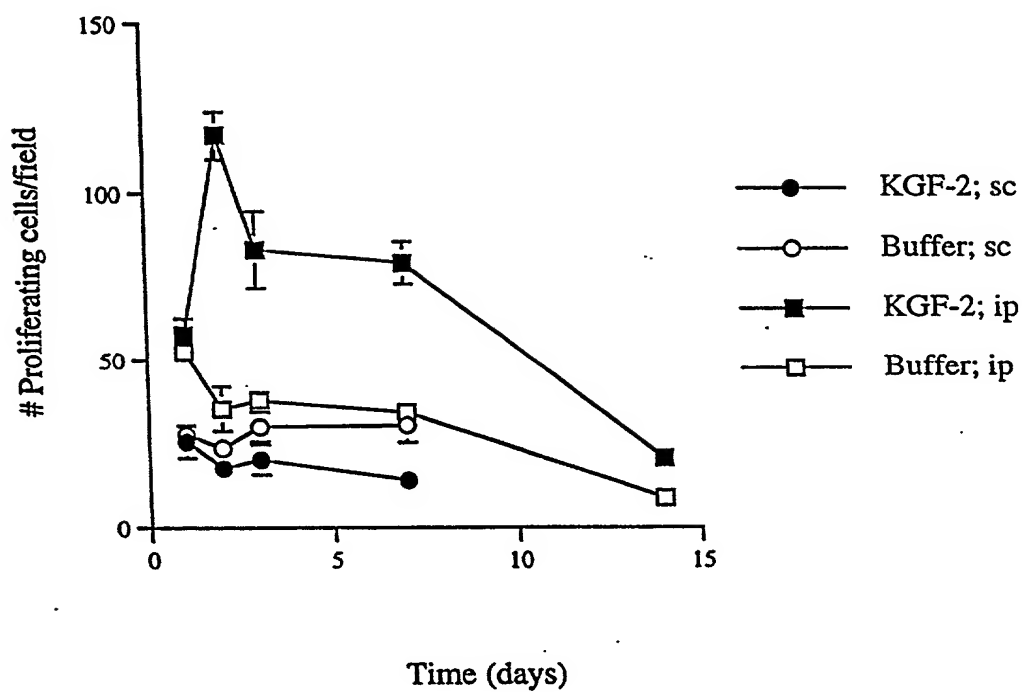


FIGURE 58

Proliferation of renal epithelia after systemic administration of KGF-2

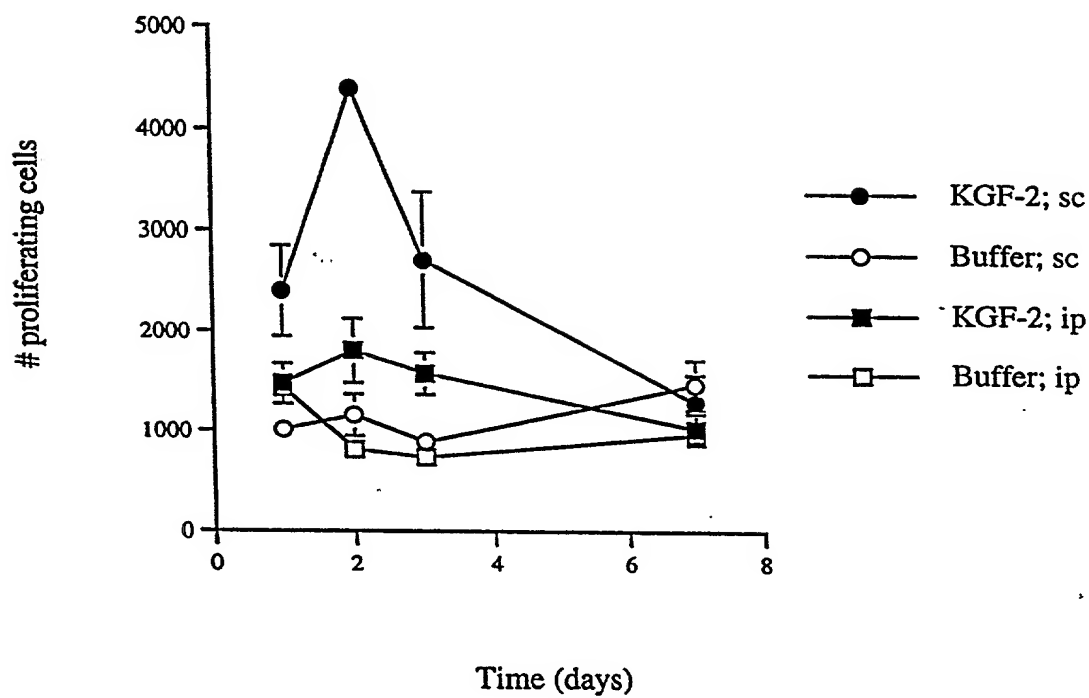


FIGURE 59

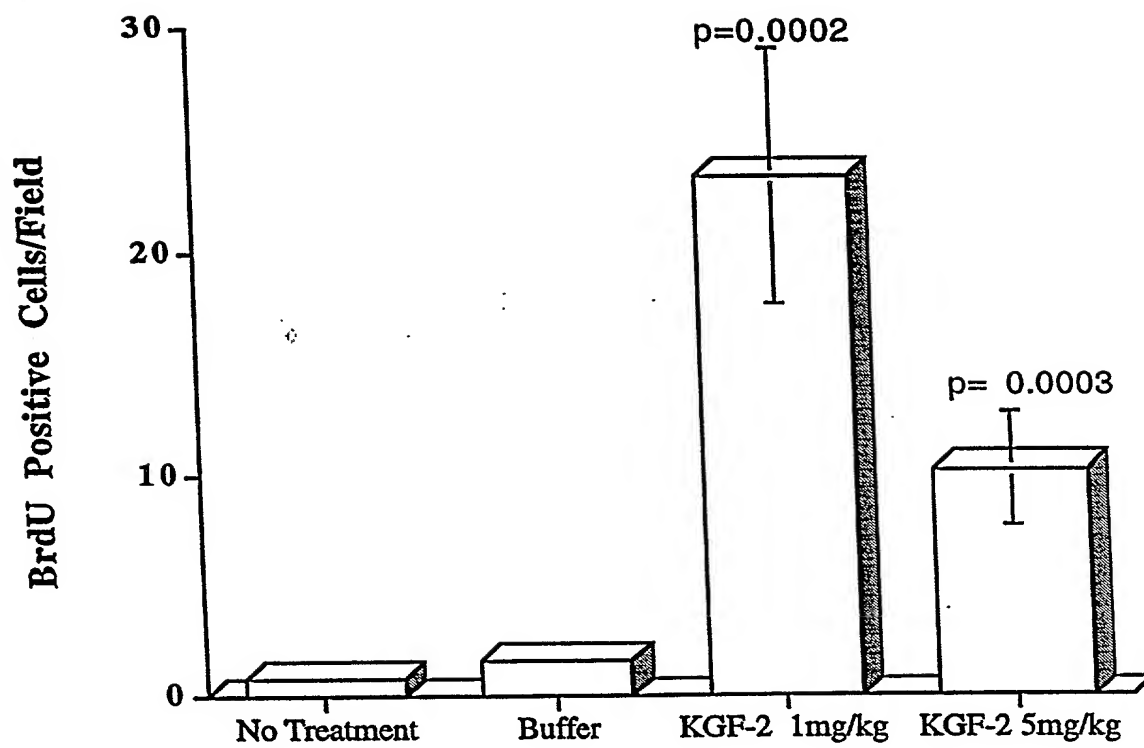


FIGURE 60